

Kerr-McGee Oil & Gas Onshore LP 1999 Broadway, Suite 3700 **Denver, CO 80205**

September 19, 2007

Mrs. Diana Mason Division of Oil, Gas and Mining P.O. Box 145801 Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11 NBU 922-18C4CS **T9S R22E** Section 18: NENW SWNW, Lot 2, 1881' FNL, 370' FWL (surface) NENW 1075' FNL, 1849' FWL (bottom hole) Uintah County, Utah

Dear Mrs. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- Kerr-McGee's NBU 922-18C4CS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore and the W/2, W/2NE/4 and SE/4 of Section 18 (federal leases USA UTU-0359, USA-UTU 0359-A and USA-UTU 0461).

Therefore, based on the above stated information Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

ms C. CM WY

James C. Colligan III

Landman

Form 3160-3 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000

UTU-0359	•

BUREAU OF LAND MAIN	AGENIENI			010-0339	
APPLICATION FOR PERMIT TO	DRILL OF	REENTER		6. If Indian, Allottee or Tri	be Name
la. Type of Work: X DRILL RE	ENTER			7. If Unit or CA Agreemer	nt, Name and No.
				UNIT #891008900A	
				8. Lease Name and Well N	
b. Type of Well: Oil Well Gas Well Other		Single Zone	Multiple Zone	NBU 922-18C4C	<u>S</u>
2. Name of Operator KERR MCGEE OIL AND GAS ONSHORE LP				9. API Well No. 43.047	39845
3A. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078	3b. Phone No. (435) 781	o. (include area co - 7024	de)	10. Field and Pool, or Expl	oratory
4. Location of Well (Report location clearly and in accordance with		uirements.*)		11. Sec., T., R., M., or Blk	, and Survey or Area
At surface SW/NW 1881'FNL, 370'FWL (LOT	2)				
At proposed prod. Zone NE/NW 1075'FNL, 1849'FWL				SEC. 18, T9S, R22E	
 Distance in miles and direction from nearest town or post office* +/- MILES FROM OURAY, UTAH 				12. County or Parish UINTAH	13. State UTAH
15. Distance from proposed* location to nearest	16. No. of A	cres in lease	17. Spacing Unit de	dicated to this well	
property or lease line, ft. 370					
(Also to nearest drig. unit line, if any)	162.39		40.00		
18. Distance from proposed location* to nearest well, drilling, completed, REFER TO	19. Proposed	d Depth	20. BLM/BIA Bond	No. on file	
applied for, on this lease, ft. TOPO C	10,185'		RLB0005239		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		mate date work wil	l start*	23. Estimated duration	
4894'GL	UPON AF	PPROVAL		TO BE DETERMINE	D
	24. A	ttachments			
The following, completed in accordance with the requirements of Ons	hore Oil and C	Gas Order No. 1, sh	all be attached to this	form:	
1. Well plat certified by a registered surveyor.	ľ	4. Bond to co	ver the operations un	less covered by an existing bo	and on file (see
2. A Drilling Plan.		Item 20 abo	ove).		
3. A Surface Use Plan (if the location is on National Forest System L	ands, the	5. Operator cer	rtification.		
SUPO shall be filed with the appropriate Forest Service Office.		6. Such other s	site specific information	on and/or plans as may be requ	uired by the
		authorized o	•	. , , ,	•
25. Stehatora	I Nor	ne (Printed/Typed)		¹ Date	
		EILA UPCHE			11/16/2007
The War your					
SENIOR LAND ADMINISPECIALIST					
Approved by (Signatufer)	Nar	ne (Printed/Typed)		Date	
(Drack at 1)	11	BRADLEY	G. HILL	112	-03-07

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)

Surf 628948X 44328687 40.038084 BHU

Federal Approval of this Action is Necessary

OfficeNVIRONMENTAL MANAGER

RECEIVED

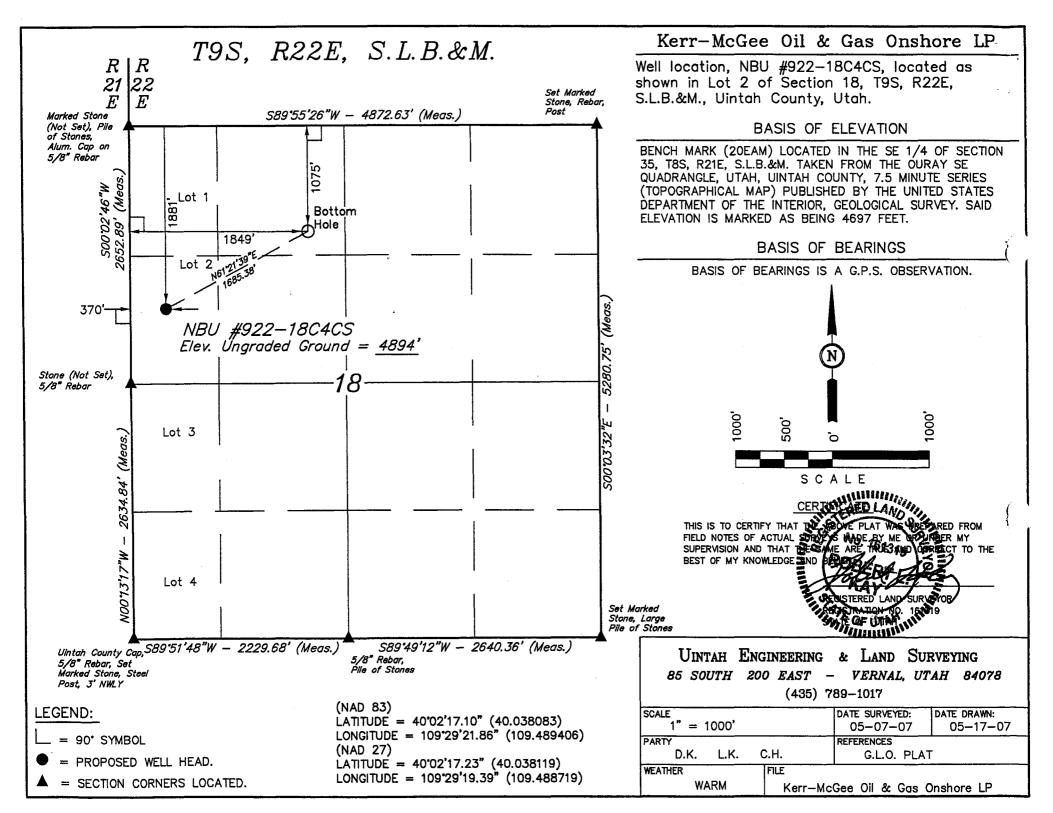
NOV 2 0 2007

DIV. OF OIL, GAS & MINING

629394X

44331224

109, 483312



NBU 922-18C4CS SW/NW LOT 2, SEC. 18, T9S, R22E UINTAH COUNTY, UTAH UTU-0359

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. <u>Estimated Tops of Important Geologic Markers:</u>

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	1834'
Top of Birds Nest Water	2116'
Mahogany	2473'
Wasatch	5087'
Mesaverde	7789'
MVU2	8731'
MVL1	9250'
TVD	9870'
TD (MD)	10,185

2. Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

Substance	<u>Formation</u>	<u>Depth</u>
	Green River	1834'
	Top of Birds Nest Water	2116'
	Mahogany	2473'
Gas	Wasatch	5087'
Gas	Mesaverde	7789'
Gas	MVU2	8731'
Gas	MVL1	9250'
Water	N/A	
Other Minerals	N/A	

3. <u>Pressure Control Equipment</u> (Schematic Attached)

Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

4. **Proposed Casing & Cementing Program:**

Please see the Natural Buttes Unit SOP.

5. Drilling Fluids Program:

Please see the Natural Buttes Unit SOP.

6. <u>Evaluation Program</u>:

Please see the Natural Buttes Unit SOP.

7. <u>Abnormal Conditions</u>:

Maximum anticipated bottomhole pressure calculated at 10,185° TD, approximately equals 6315 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 4074 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. <u>Variances:</u>

Please see Natural Buttes Unit SOP.

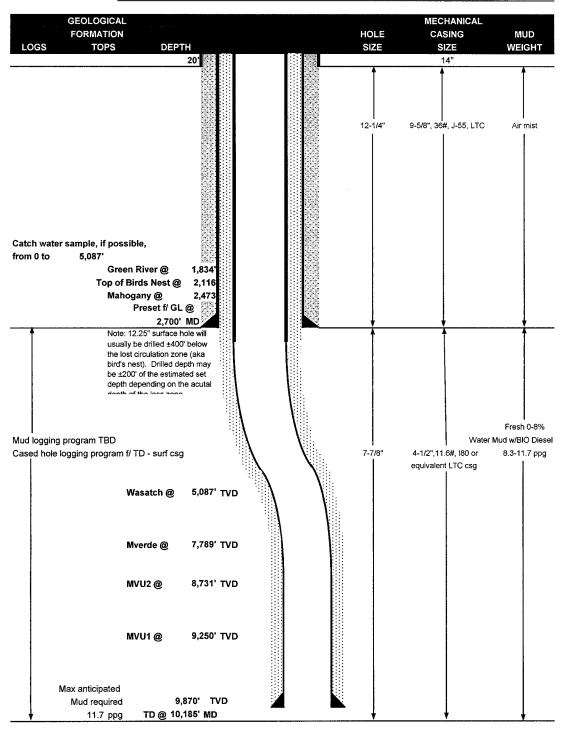
10. Other Information:

Please see Natural Buttes Unit SOP.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME KERR-McGEE OIL & GAS ONSHORE LP November 16, 2007 **NBU 922-18C4CS** WELL NAME TD 10,185' MD 9,870' TVD FIELD 4,893' GL Natural Buttes COUNTY Uintah STATE Utah ELEVATION KB 4,908' SURFACE LOCATION SW/NW LOT 2, T9S, R22E 1881'FNL, 370'FWL 40.038083 Longitude: 109.489406 Latitude: BTM HOLE LOCATION NE/NW SEC. 18, T9S, R22E 1075'FNL, 1849'FWL OBJECTIVE ZONE(S) Wasatch/Mesaverde ADDITIONAL INFO Regulatory Agencies: TRIBAL SURFACE, BLM MINERALS, UDOGM, Tri-County Health Dept.





KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

						DESIGN FACTORS		
	SIZE	INTERVAL	WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
		the second second	a fill paint	الباد بالسرأ بالمعاديون		3520	2020	453000
SURFACE	9-5/8"	0 to 2700	36.00	J-55	LTC	0.89	1.60	5.93
						7780	6350	201000
PRODUCTION	4-1/2"	0 to 10185	11.60	I-80	LTC	1.97	1.02	1.95
				and a construction of the control of			i i	
			<u> </u>					

¹⁾ Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point)

(Burst Assumptions: TD =

0.0 ppg)

.22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP

3956 psi

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE LEAD	500	Premium cmt + 2% CaCl	215	60%	15.60	1.18
Option 1		+ .25 pps flocele	respectant.			l
TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt	50		15.60	1.18
		+ 2% CaCl + .25 pps flocele	SECTION AND A	k		
TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE	-	NOTE: If well will circulate water to	surface, o	ption 2 will	be utilized	· ····································
Option 2 LEAD	1500	65/35 Poz + 6% Gel + 10 pps gilsonite	360	35%	12.60	1.81
		+ 25 pps Flocele + 3% salt BWOW	captivos element.	IMMONORONIA (PARILINGIA)	si interior de la servicio de la se	era aktorioakt kurungen eraka, ar er
TAIL	500	Premium cmt + 2% CaCl	180	35%	15.60	1.18
	er a er om om menne er mennestede sela stranaret 	+ 25 pps flocele		Marketter (1964) - Area (1964)	man elektrika bi taka 2000 -	Separation of the control of the con
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.]	15.60	1.18
			ALIK DENBEKKI Bulan Kalendar		enduterasias de la colonia. Lincia como de la colonia	
PRODUCTION LEAD	7,285'	Premium Lite II + 3% KCI + 0.25 pps	790	60%	11.00	3.38
	and a second constant of the second	celloflake + 5 pps gilsonite + 10% gel	istant ———			rene i medeste peter didutation in tra- no di didutation di 1900 giologia
		+ 0.5% extender		1		
	seconos distras estado	one sum decembración such fatt V.S.; Melanak	MARKAL SAMON	roet doubles to 1775 a	ar (40,769-647,5,740-51) (1886	entras interventifica e
TAIL	2,900'	50/50 Poz/G + 10% salt + 2% gel	810	60%	14.30	1.31
	ter against a salage growing participage of	+.1% R-3	ending washing a		and the second suggest,	ari e matricalega, e dives.

^{*}Substitute caliper hole volume plus 15% excess if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

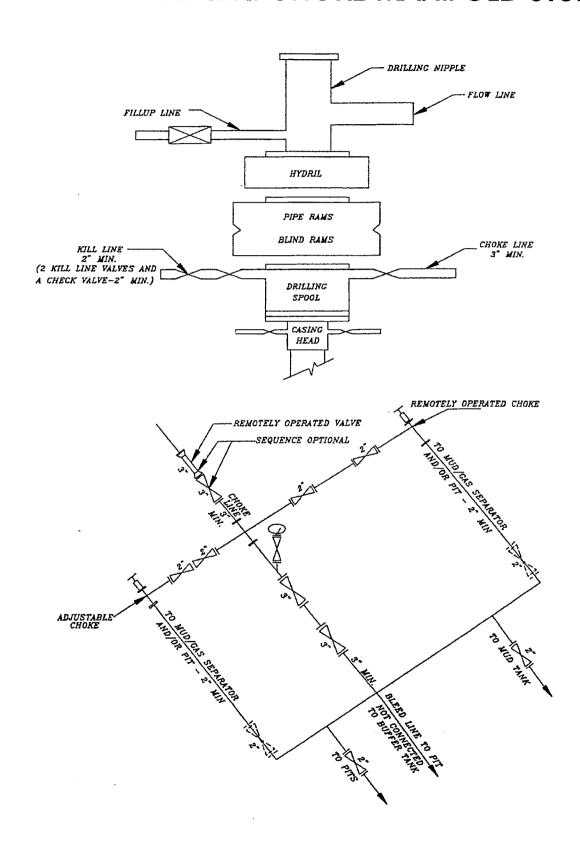
SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

ADDITIONAL INFORMATION

	Test casing head to 750 psi after	r installing. Test surface casing to 1,500 psi prior to drilling out.	
	BOPE: 11" 5M with one annular	and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out.	Record on chart recorder &
	tour sheet. Function test rams of	n each trip. Maintain safety valve & inside BOP on rig floor at all times.	Kelly to be equipped with upper
	& lower kelly valves.		
	Drop Totco surveys every 2000'	Maximum allowable hole angle is 5 degrees.	
	Most rigs have PVT System for a	nud monitoring. If no PVT is available, visual monitoring will be utilized.	
DBILLING	ENGINEER:		DATE:
DRILLING	ENGINEER:		DATE:
		Brad Laney	
DRILLING	SUPERINTENDENT:		DATE:
		Randy Bayne	

²⁾ MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)

5M BOP STACK and CHOKE MANIFOLD SYSTEM





Drilling Services

Proposal



ANADARKO - KERR McGEE

NBU 922-18C4CS

UINTAH COUNTY, UTAH

WELL FILE: PLAN 1

SEPTEMBER 24, 2007

Weatherford International, Ltd.

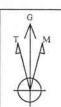
15710 John F. Kennedy Blvd Houston, Texas 77032 USA +1.281.260.1300 Main +1.281.260.4730 Fax www.weatherford.com





ANADARKO KERR MCGEE OIL & GAS NBU 922-18C4CS UINTAH COUNTY, UTAH





Azimuths to Grid North True North: -0.97° Magnetic North: 10.60°

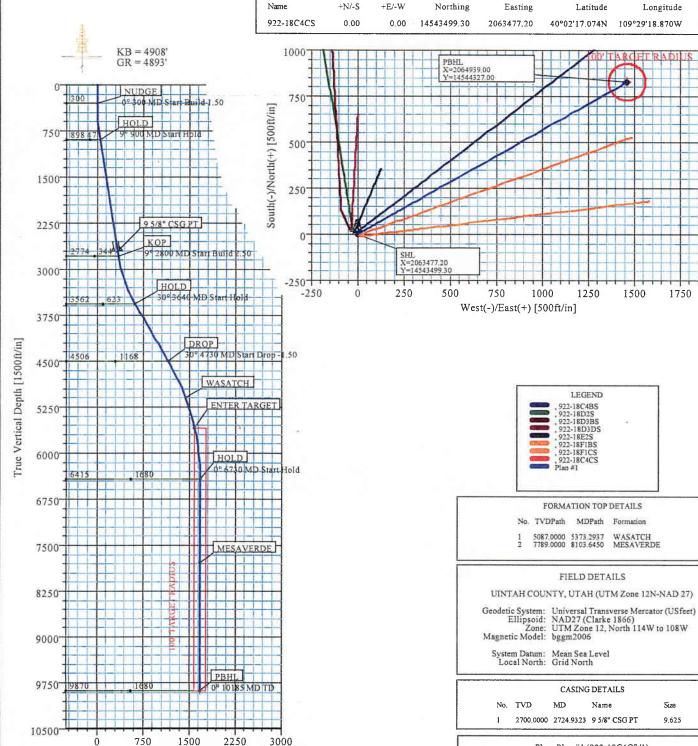
Magnetic Field Strength: 52768nT Dip Angle: 66.02° Date: 9/24/2007 Model: bggm2006

Vertical Section at 60.48° [1500ft/in]

					SECTION D	ETAILS				
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
. 1	0.0000		60.4806	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
™ <u>2</u>	300,0000		60.4806	300,0000	0.0000	0.0000	0.0000	60.4806	0.0000	
3	900.0000	9.0000	60 4806	897 5356	23 1711	40,9224	1.5000	60.4806	47.0271	
4	2800.0000	9.0000	60.4806	2774 1435	169.6195	299.5648	0.0000	0.0000	344.2526	
5	3640.0000	30.0000	60.4806	3561 5377	307.0046	542,2003	2.5000	0.0000	623.0835	
6	4730.0726	30.0000	60.4806	4505.5683	575.5538	1016.4849	0.0000	0.0000	1168.1198	
7	6730.0726	0.0000	60.4806	6415 4276	827,7000	1461.8000	1.5000	180.0000	1679.8650	
8	10184.6450	0.0000	60.4806	9870 0000	827,7000	1461 8000	0.0000	0.0000	1679.8650	PBHL

WELL DETAILS

Name	+N/-S	+É/-W	Northing	Easting	Latitude	Longitude	Slot
922-18C4CS	0.00	0.00	14543499.30	2063477.20	40°02'17.074N	109°29'18.870W	N/A





1250

1500

1750

2000

FORMATION TOP DETAILS

No. TVDPath MDPath Formation

5087.0000 5373.2937 WASATCH 7789.0000 8103.6450 MESAVERDE

FIELD DETAILS

UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)

System Datum: Mean Sea Level

Local North: Grid North

CASING DETAILS

Size 2700.0000 2724.9323 9 5/8" CSG PT 9.625

Plan: Plan #1 (922-18C4CS/1)

Created By: L WINCHELL

Date: 9/25/2007





Db: Sybase

Company: Anadarko-Kerr-McGee

UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)

NBU 922-18C4CS PAD CDEF Site:

Well: 922-18C4CS

Wellpath: 1

Field:

Field:

UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)

Map System: Universal Transverse Mercator (USfeet)

Geo Datum: NAD27 (Clarke 1866)

Sys Datum: Mean Sea Level

Map Zone:

Date: 9/25/2007

Coordinate System:

Co-ordinate(NE) Reference:

Survey Calculation Method:

Vertical (TVD) Reference:

Section (VS) Reference:

Geomagnetic Model:

UTM Zone 12, North 114W to 108W

Well (0.00N,0.00E,60.48Azi)

Site: NBU 922-18C4CS PAD CDEF

Site Centre

Time: 16:14:24

SITE 4908.0

Minimum Curvature

bggm2006

Site: NBU 922-18C4CS PAD CDEF

1881' FNL 370' FWL SEC 18-T9S-R22E

4893.00 ft

Site Position:

Northing: 14543499.30 ft

From: Map Position Uncertainty:

Ground Level:

Wellpath: 1

Current Datum:

Easting: 0.00 ft

2063477.20 ft

Latitude: Longitude: North Reference:

40 2 17.074 N 109 29 18.870 W Grid

Grid Convergence:

0.97 deg

Well:

922-18C4CS

Well Position: +N/-S

0.00 ft 0.00 ft +E/-W

14543499.30 ft Northing: Easting: 2063477.20 ft Latitude: Longitude:

Drilled From:

Declination:

Slot Name:

17.074 N 109 29 18.870 W

Position Uncertainty:

0.00 ft

+N/-S

ft

0.00

Height 4908.00 ft

Tie-on Depth: Above System Datum: Surface 0.00 ft Mean Sea Level 11.57 deg

SITE Magnetic Data: 9/24/2007 Field Strength: 52768 пТ Vertical Section:

0.00

Depth From (TVD)

Mag Dip Angle: +E/-W ft

66.02 deg Direction deg

0.00 60.48

Plan: Plan #1

Principal: Yes Date Composed: Version: Tied-to:

9/25/2007

From Surface

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100f	Build t deg/100f	Turn t deg/100ft	TFO deg	Target	
0.00	0.00	60.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
300.00	0.00	60.48	300.00	0.00	0.00	0.00	0.00	0.00	60.48		
900.00	9.00	60.48	897.54	23.17	40.92	1.50	1.50	0.00	60.48		
2800.00	9.00	60.48	2774.14	169.62	299.56	0.00	0.00	0.00	0.00		
3640.00	30.00	60.48	3561.54	307.00	542.20	2.50	2.50	0.00	0.00		
4730.07	30.00	60.48	4505.57	575.55	1016.48	0.00	0.00	0.00	0.00		
6730.07	0.00	60.48	6415.43	827.70	1461.80	1.50	-1.50	0.00	180.00		
10184.65	0.00	60.48	9870.00	827.70	1461.80	0.00	0.00	0.00	0.00	PBHL	

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
0.00	0.00	60.48	0.00	0.00	0.00	0.00	0.00	14543499.30	2063477.20	
100.00	0.00	60.48	100.00	0.00	0.00	0.00	0.00	14543499.30	2063477.20	
200.00	0.00	60.48	200.00	0.00	0.00	0.00	0.00	14543499.30	2063477.20	
300.00	0.00	60.48	300.00	0.00	0.00	0.00	0.00	14543499.30	2063477.20	NUDGE
400.00	1.50	60.48	399.99	0.64	1.14	1.31	1.50	14543499.94	2063478.34	
500.00	3.00	60.48	499.91	2.58	4.56	5.23	1.50	14543501.88	2063481.76	
600.00	4.50	60.48	599.69	5.80	10.25	11.77	1.50	14543505.10	2063487.45	
700.00	6.00	60.48	699.27	10.31	18.21	20.92	1.50	14543509.61	2063495.41	
800.00	7.50	60.48	798.57	16.10	28.44	32.68	1.50	14543515.40	2063505.64	
900.00	9.00	60.48	897.54	23.17	40.92	47.03	1.50	14543522.47	2063518.12	HOLD
1000.00	9.00	60.48	996.30	30.88	54.54	62.67	0.00	14543530.18	2063531.74	
1100.00	9.00	60.48	1095.07	38.59	68.15	78.31	0.00	14543537.89	2063545.35	•
1200.00	9.00	60.48	1193.84	46.29	81.76	93.96	0.00	14543545.59	2063558.96	
1300.00	9.00	60.48	1292.61	54.00	95.37	109.60	0.00	14543553.30	2063572.57	





Company: Anadarko-Kerr-McGee
Field: UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)
Site: NBU 922-18C4CS PAD CDEF

Well: 922-18C4CS

Wellpath: 1

Date: 9/25/2007 Co-ordinate(NE) Reference:

Survey Calculation Method:

Time: 16:14:24 e: 16:14:24 Page: Site: NBU 922-18C4CS PAD CDEF

SITE 4908.0

Vertical (TVD) Reference: Section (VS) Reference:

Well (0.00N,0.00E,60.48Azi)

Minimum Curvature Db: Sybase

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Commen
1400.00	9.00	60.48	1391.38	61.71	108.99	125.24	0.00	π 14543561.01	π 2063586.19	
1400.00	9.00	00.40	1381.30	01.71	100.99	125.24	0.00	14043001.01	2003080.19	
1500.00	9.00	60.48	1490.15	69.42	122.60	140.89	0.00	14543568.72	2063599.80	
1600.00	9.00	60.48	1588.92	77.13	136.21	156.53	0.00	14543576.43	2063613.41	
1700.00	9.00	60.48	1687.69	84.83	149.82	172.17	0.00	14543584.13	2063627.02	
1800.00	9.00	60.48	1786.46	92.54	163.44	187.82	0.00	14543591.84	2063640.64	
1900.00	9.00	60.48	1885.22	100.25	177.05	203.46	0.00	14543599.55	2063654.25	
2000.00	9.00	60.48	1983.99	107.96	190.66	219.10	0.00	14543607.26	2063667.86	
2100.00	9.00	60.48	2082.76	115.66	204.28	234.75	0.00	14543614.96	2063681.48	
2200.00	9.00	60.48	2181.53	123.37	217.89	250.39	0.00	14543622.67	2063695.09	
2300.00 2400.00	9.00 9.00	60.48	2280.30	131.08	231.50	266.04	0.00	14543630.38	2063708.70	
2400.00	9.00	60.48	2379.07	138.79	245.11	281.68	0.00	14543638.09	2063722.31	
2500.00	9.00	60.48	2477.84	146.50	258.73	297.32	0.00	14543645.80	2063735.93	
2600.00	9.00	60.48	2576.61	154.20	272.34	312.97	0.00	14543653.50	2063749.54	
2700.00	9.00	60.48	2675.37	161.91	285.95	328.61	0.00	14543661.21	2063763.15	0 5/01/ 000 5
2724.93	9.00 9.00	60.48	2700.00	163.83 169.62	289.35	332.51	0.00	14543663.13	2063766.55	9 5/8" CSG P
2800.00	9.00	60.48	2774.14	109.02	299.56	344.25	0.00	14543668.92	2063776.76	KOP
2900.00	11.50	60.48	2872.54	178.39	315.05	362.05	2.50	14543677.69	2063792.25	
3000.00	14.00	60.48	2970.07	189.26	334.25	384.11	2.50	14543688.56	2063811.45	
3100.00	16.50	60.48	3066.54	202.22	357.14	410.41	2.50	14543701.52	2063834.34	
3200.00	19.00	60.48	3161.77	217.24	383.67	440.90	2.50	14543716.54	2063860.87	
3300.00	21.50	60.48	3255.58	234.29	413.78	475.51	2.50	14543733.59	2063890.98	
3400.00	24.00	60.48	3347.79	253.34	447.43	514.18	2.50	14543752.64	2063924.63	
3500.00	26.50	60.48	3438.23	274.36	484.55	556.83	2.50	14543773.66	2063961.75	
3600.00	29.00	60.48	3526.72	297.30	525.06	603.39	2.50	14543796.60	2064002.26	HOLD
3640.00 3700.00	30.00 30.00	60.48 60.48	3561.54 3613.50	307.00 321.79	542.20 568.31	623.08 653.08	2.50 0.00	14543806.30 14543821.09	2064019.40 2064045.51	HOLD
3800.00 3900.00	30.00 30.00	60.48 60.48	3700.10 3786.70	346.42 371.06	611.82 655.32	703.08 753.08	0.00 0.00	14543845.72 14543870.36	2064089.02 2064132.52	
4000.00	30.00	60.48	3873.31	395.69	698.83	803.08	0.00	14543894.99	2064176.03	
4100.00	30.00	60.48	3959.91	420.33	742.34	853.08	0.00	14543919.63	2064219.54	
4200.00	30.00	60.48	4046.51	444.97	785.85	903.08	0.00	14543944.27	2064263.05	
4300.00	30.00	60.48	4133.11	469.60	829.36	953.08	0.00	14543968.90	2064306.56	
4400.00	30.00	60.48	4219.72	494.24	872.87	1003.08	0.00	14543993.54	2064350.07	
4500.00	30.00	60.48	4306.32	518.87	916.38	1053.08	0.00	14544018.17	2064393.58	
4600.00	30.00	60.48	4392.92	543.51	959.89	1103.08	0.00	14544042.81	2064437.09	
4700.00	30.00	60.48	4479.52	568.15	1003.40	1153.08	0.00	14544067.45	2064480.60	
4730.07	30.00	60.48	4505.57	575.55	1016.48	1168.12	0.00	14544074.85	2064493.68	DROP
4800.00	28.95	60.48	4566.44	592.51	1046.43	1202.53	1.50	14544091.81	2064523.63	
4900.00	27.45	60.48	4654.57	615.79	1087.55	1249.78	1.50	14544115.09	2064564.75	
5000.00	25.95	60.48	4743.90	637.93	1126.65	1294.71	1.50	14544137.23	2064603.85	
5100.00	24.45	60.48	4834.38	658.91	1163.70	1337.29	1.50	14544158.21	2064640.90	
5200.00	22.95	60.48	4925.95	678.71	1198.68	1377.49	1.50	14544178.01	2064675.88	
5300.00	21.45	60.48	5018.53	697.33	1231.56	1415.27	1.50	14544196.63	2064708.76	
5373.29	20.35	60.48	5087.00	710.21	1254.31	1441.42	1.50	14544209.51	2064731.51	WASATCH
5400.00	19.95	60.48	5112.07	714.75	1262.32	1450.62	1.50	14544214.05	2064739.52	
5500.00	18.45	60.48	5206.51	730.95	1290.93	1483.51	1.50	14544230.25	2064768.13	
5600.00	16.95	60.48	5301.77	745.93	1317.39	1513.91	1.50	14544245.23	2064794.59	
5700.00	15.45	60.48	5397.79	759.68	1341.67	1541.81	1.50	14544258.98	2064818.87	
5800.00	13.95	60.48	5494.52	772.18	1363.75	1567.19	1.50	14544271.48	2064840.95	ENTED TABO
5895.01	12.53	60.48	5587.00	782.90	1382.68	1588.95	1.50	14544282.20	2064859.88 2064860.82	ENTER TARG
5900.00	12.45	60.48	5591.87	783.44	1383.62	1590.03	1.50	14544282.74	200400U.0Z	
6000.00	10.95	60.48	5689.79	793.43	1401.27	1610.31	1.50	14544292.73	2064878.47	





Company: Anadarko-Kerr-McGee

UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27) NBU 922-18C4CS PAD CDEF Field:

Site:

922-18C4CS Well:

Wellpath: 1

Date: 9/25/2007 Co-ordinate(NE) Reference: Vertical (TVD) Reference:

Time: 16:14:24 Page: : Site: NBU 922-18C4CS PAD CDEF SITE 4908.0

Well (0.00N,0.00E,60.48Azi) Section (VS) Reference: Survey Calculation Method:

Minimum Curvature

Db: Sybase

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
6100.00	9.45	60.48	5788.21	802.15	1416.68	1628.02	1.50	14544301.45	2064893.88	
6200.00	7.95	60.48	5887.05	809.61	1429.85	1643.14	1.50	14544308.91	2064907.05	
6300.00	6.45	60.48	5986.26	815.78	1440.75	1655.68	1.50	14544315.08	2064917.95	
6400.00	4.95	60.48	6085.77	820.68	1449.40	1665.61	1.50	14544319.98	2064926.60	
6500.00	3.45	60.48	6185.49	824.29	1455.77	1672.94	1.50	14544323.59	2064932.97	
6600.00	1.95	60.48	6285.38	826.61	1459.87	1677.65	1.50	14544325.91	2064937.07	
6700.00	0.45	60.48	6385.36	827.64	1461.70	1679.75	1.50	14544326.94	2064938.90	•
6730.07	0.00	60.48	6415.43	827.70	1461.80	1679.87	1.50	14544327.00	2064939.00	HOLD
6800.00	0.00	60.48	6485.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
6900.00	0.00	60.48	6585.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
7000.00	0.00	60.48	6685.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
7100.00	0.00	60.48	6785.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
7200.00	0.00	60.48	6885.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
7300.00	0.00	60.48	6985.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
7400.00	0.00	60.48	7085.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
7500.00	0.00	60.48	7185.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
7600.00	0.00	60.48	7285.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
7700.00	0.00	60.48	7385.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
7800.00	0.00	60.48	7485.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
7900.00	0.00	60.48	7585.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
8000.00	0.00	60.48	7685.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
8100.00	0.00	60.48	7785.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
8103.65	0.00	60.48	7789.00	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	MESAVERDE
8200.00	0.00	60.48	7885.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	,,,_0,,,,,,
0000 00	2.22	00.46	7005.07	007.70	4404.00	4070.07	0.00	14544227.00	2064020.00	
8300.00	0.00	60.48	7985.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
8400.00	0.00	60.48	8085.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
8500.00	0.00	60.48	8185.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
8600.00	0.00	60.48	8285.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
8700.00	0.00	60.48	8385.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
8800.00	0.00	60.48	8485.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
8900.00	0.00	60.48	8585.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
9000.00	0.00	60.48	8685.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
9100.00	0.00	60.48	8785.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
9200.00	0.00	60.48	8885.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
0000.00	0.00	60.40	0005.05	007 70	1461.00	1679.87	0.00	14544327.00	2064939.00	
9300.00	0.00	60.48	8985.35	827.70	1461.80					
9400.00	0.00	60.48	9085.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
9500.00	0.00	60.48	9185.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
9600.00	0.00	60.48	9285.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
9700.00	0.00	60.48	9385.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
9800.00	0.00	60.48	9485.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
9900.00	0.00	60.48	9585.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
10000.00	0.00	60.48	9685.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
10100.00	0.00	60.48	9785.35	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	
10184.65	0.00	60.48	9870.00	827.70	1461.80	1679.87	0.00	14544327.00	2064939.00	PBHL

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	a	ĸ.	Z	С	13

Name	Description Dip. 1	TVD Dir. ft	+N/-S ft	+E/-W	Map Northing ft	Map Easting ft		Latitude> Min Sec	< Longitude> Deg Min Sec
PBHL.		9870.00	827.70	1461.80	14544327.002	2064939.00	40	2 25.009 N	109 28 59.894 W
-Circle (R	tadius: 100)								





Company: Anadarko-Kerr-McGee Field:

UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27) NBU 922-18C4CS PAD CDEF

Diameter

9.625

Site:

TVD

ft

2700.00

922-18C4CS Well:

Wellpath: 1

Date: 9/25/2007 Co-ordinate(NE) Reference:

Section (VS) Reference:

Vertical (TVD) Reference:

Survey Calculation Method:

Time: 16:14:24

re: 10:14:24 Page: Site: NBU 922-18C4CS PAD CDEF SITE 4908.0 Well (0.00N,0.00E,60.48Azi) Minimum Curvature

Db: Sybase

Casing Points MD

ft

r	Hole Size in	Name
	9.625	9 5/8" CSG PT

2724.93 Annotation

MD ft	TVD ft		
300.00	300.00	NUDGE	٦
900,00	897.54	HOLD	
2800.00	2774.14	KOP	
3640.00	3561.54	HOLD	
4730.07	4505.57	DROP	
5895.01	5587.00	ENTER TARGET	
6730.07	6415.42	HOLD	
10184.65	0.00	PBHL	

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
5373.29	5087.00	WASATCH		0.00	0.00
8103.65	7789.00	MESAVERDE		0.00	0.00

NBU 922-18C4CS SW/NW LOT 2, SEC. 18, T9S, R22E UINTAH COUNTY, UTAH UTU-0359

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. Existing Roads:

Refer to the attached location directions.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

2. Planned Access Roads:

Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

Approximately 170' +/- of access road is proposed. Please refer to the attached Topo Map B.

3. Location of Existing Wells Within a 1-Mile Radius:

Please refer to Topo Map C.

4. Location of Existing & Proposed Facilities:

Please see the Natural Buttes Unit SOP.

Approximately 20" +/- of 10" steel pipeline is proposed from the location to an existing pipeline. Refer to the attached Topo Map D.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The requested color is Carlsbad Canyon Brown (2.5Y 6/2), a non-reflective earthtone.

5. Location and Type of Water Supply:

Please see the Natural Buttes SOP.

6. Source of Construction Materials:

Please see the Natural Buttes SOP.

7. Methods of Handling Waste Materials:

Please see the Natural Buttes SOP.

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E (Request is in lieu of filing Form 3160-5, after initial production).

8. Ancillary Facilities:

Please see the Natural Buttes SOP.

9. Well Site Layout: (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

Culverts will be installed where needed.

A run off diversion for drainage will be constructed where needed.

The reserve pit will be lined. When the reserve pit is closed the pit liner will be buried below plow depth.

Location size may change prior to the drilling of the well due to the current rig availability. If the proposed location is not large enough to accommodate the drilling rig. The location will be resurveyed and a form 3160-5 will be submitted.

10. Plans for Reclamation of the Surface:

Please see the Natural Buttes SOP.

11. Surface Ownership:

The well pad and access road are located on lands owned by:

Ute Indian Tribe P.O. Box 70 Fort Duchesne, Utah 84026 (435) 722-5141

12. Other Information:

A Class III Archaeological Survey Report has been conducted for this location and submitted to the Ute Indian Tribe prior to the on-site inspection.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it within 460' of any non-committed tract lying within boundaries of the unit.

13. <u>Lessee's or Operator's Representative & Certification:</u>

Sheila Ucphego Senior Land Admin Specialist Kerr-McGee Oil & Gas Onshore LP 1368 South 1200 East Vernal, UT 84078 (435) 781-7024 Randy Bayne Drilling Manager Kerr-McGee Oil & Gas Onshore LP 1368 South 1200 East Vernal, UT 84078 (435) 781-7018

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under the terms and conditions of the lease for the operations conducted upon leased lands.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Indian Affairs Nationwide Bond #RLB0005239, Bureau of Land Management Nationwide Bold #WYB000291 and State of Utah Bond #RLB0005237.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Theila Upchego

11/5/2007 Date

Kerr-McGee Oil & Gas Onshore LP NBU #922-18C4CS, F1BS, F1CS, C4BS, E2S, D3DS, D3BS, & D2S SECTION 18, T9S, R22E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.3 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST: TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 12.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 1.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 1.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST: TURN RIGHT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN RIGHT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 170' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 48.0 MILES.

onia.

Kerr-McGee Oil & Gas Onshore LP

NBU #922-18C4CS, F1BS, F1CS, C4BS, E2S, D3DS, D3BS, & D2S

LOCATED IN UINTAH COUNTY, UTAH **SECTION 18, T9S, R22E, S.L.B.&M.**

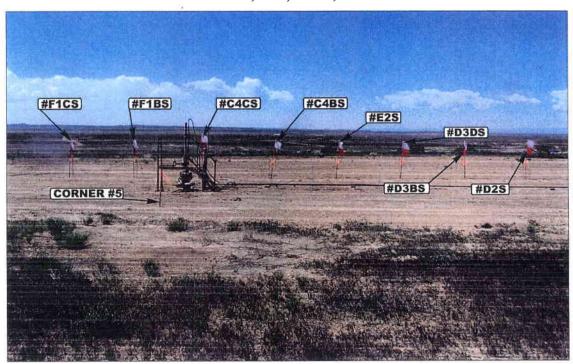


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES

CAMERA ANGLE: SOUTHWESTERLY

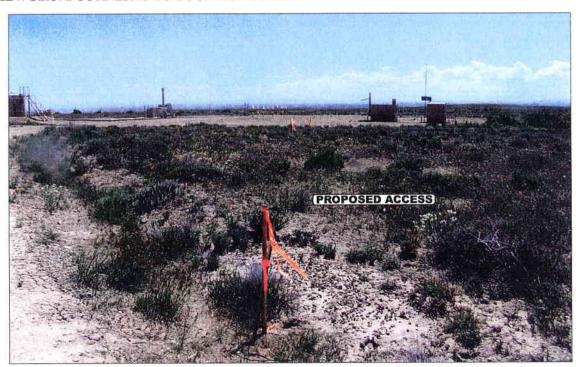


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: EASTERLY



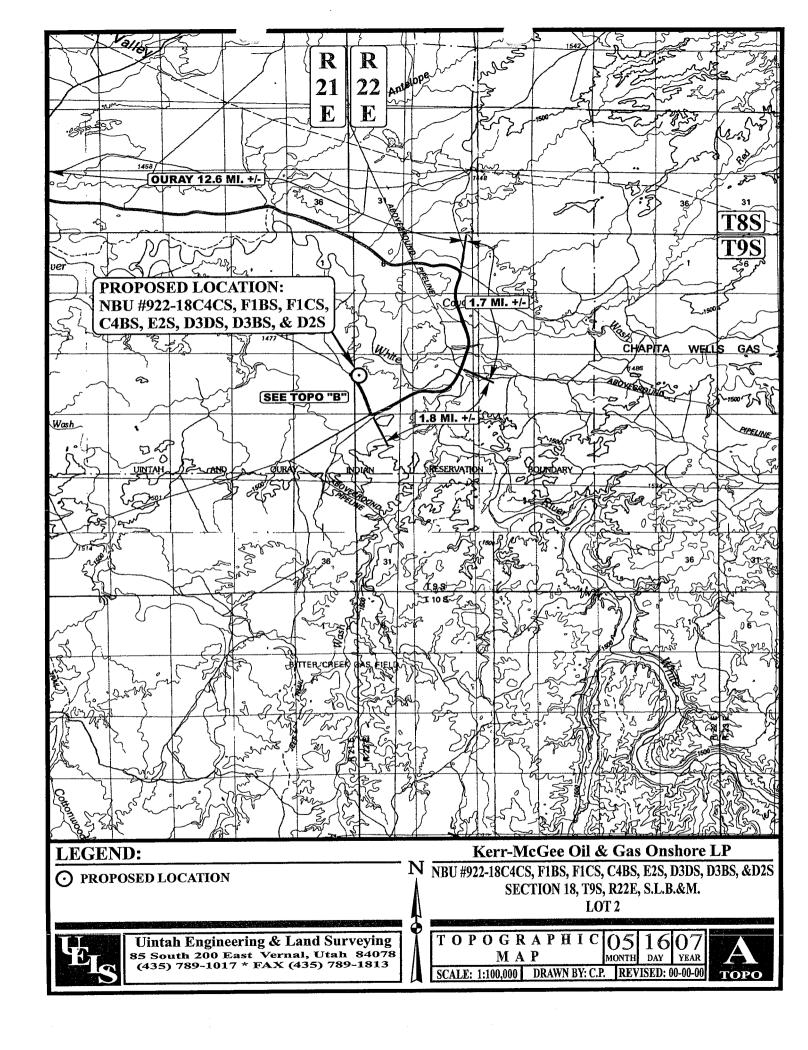
Uintah Engineering & Land Surveying 85 South 200 East Vernal, Utah 84078 435-789-1017 uels@uelsinc.com

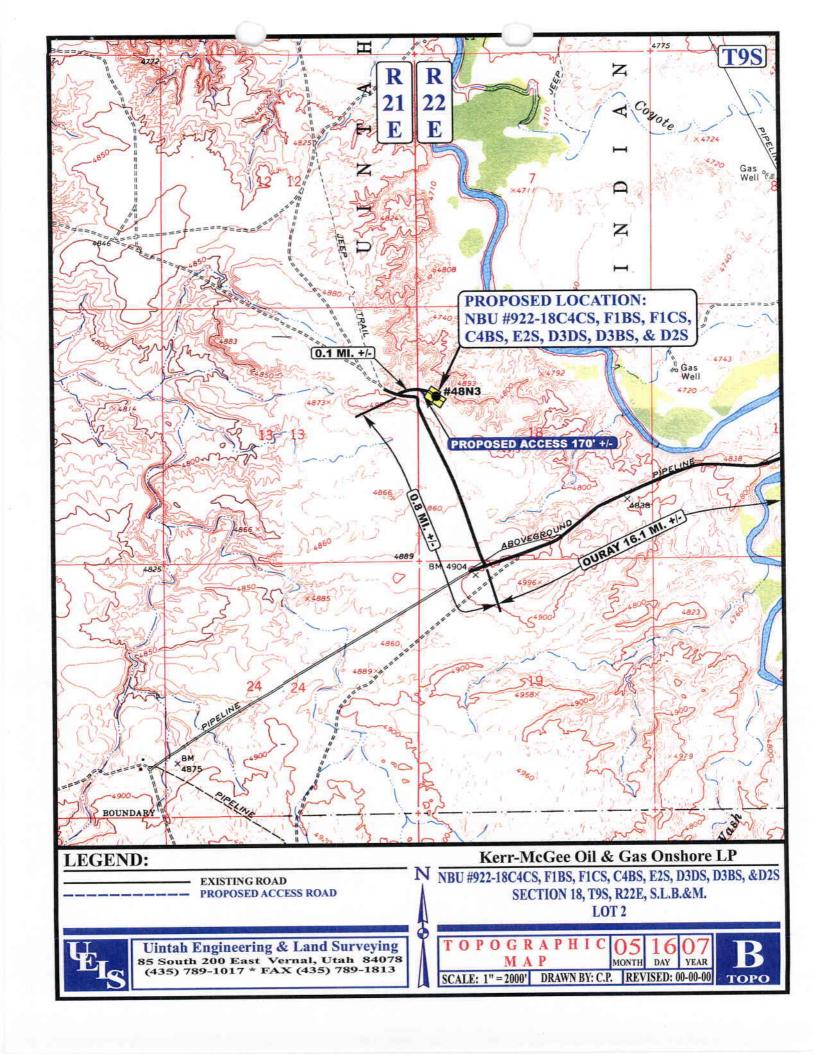
LOCATION PHOTOS

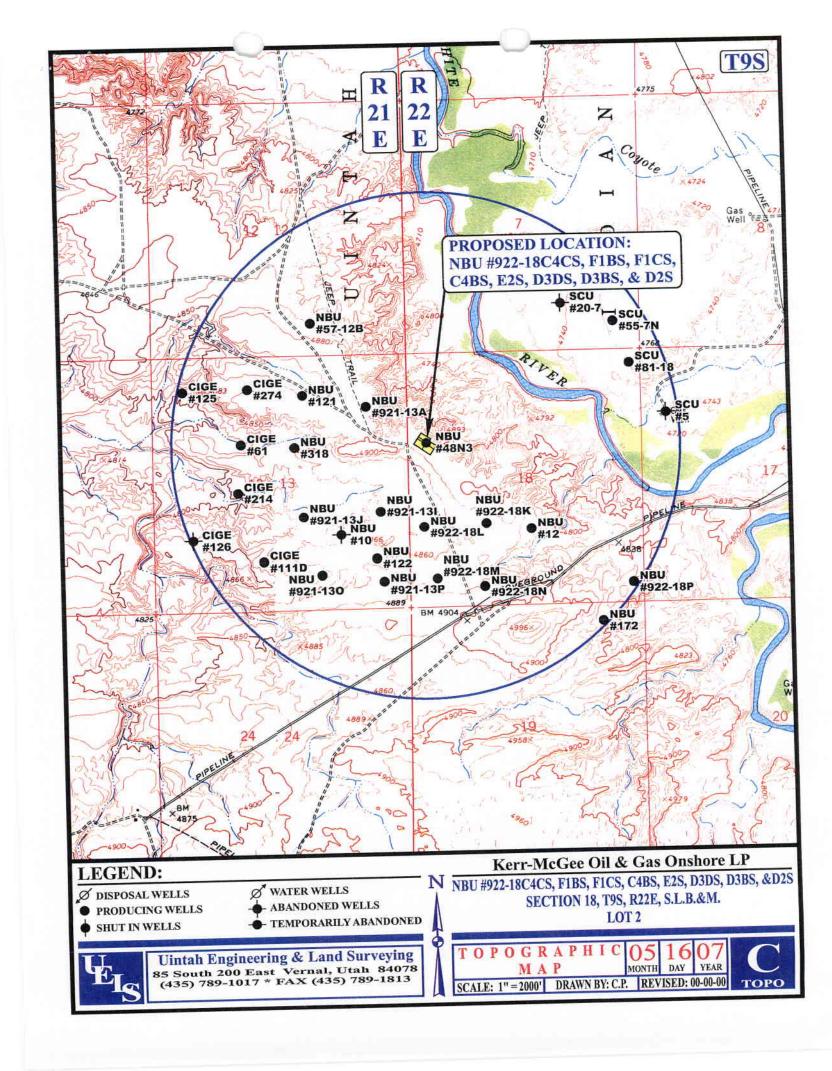
MONTH DAY YEAR

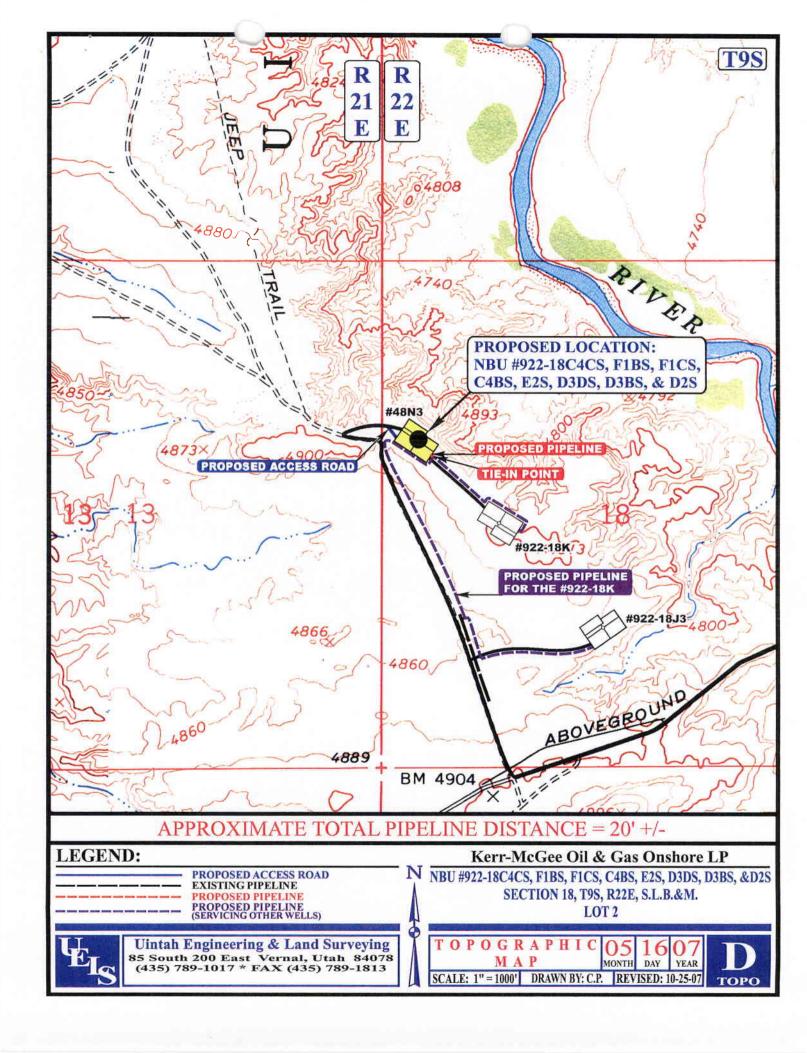
РНОТО

TAKEN BY: L.K. DRAWN BY: C.P. REVISED: 00-00-00









Kerr-McGee Oil & Gas Onshore LP NBU #922-18C4CS, F1BS, F1CS, C4BS, E2S, D3DS, D3BS, & D2S PIPELINE ALIGNMENT

LOCATED IN UINTAH COUNTY, UTAH **SECTION 18, T9S, R22E, S.L.B.&M.**

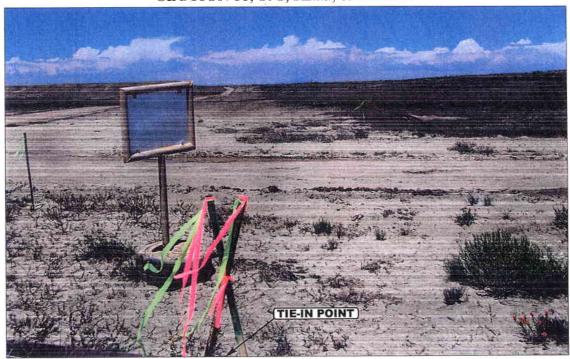


PHOTO: VIEW FROM TIE-IN POINT

CAMERA ANGLE: NORTHWESTERLY



PHOTO: VIEW OF PIPELINE ALIGNMENT

CAMERA ANGLE: NORTHWESTERLY



Uintah Engineering & Land Surveying 85 South 200 East Vernal, Utah 84078 435-789-1017 uels@uelsinc.com

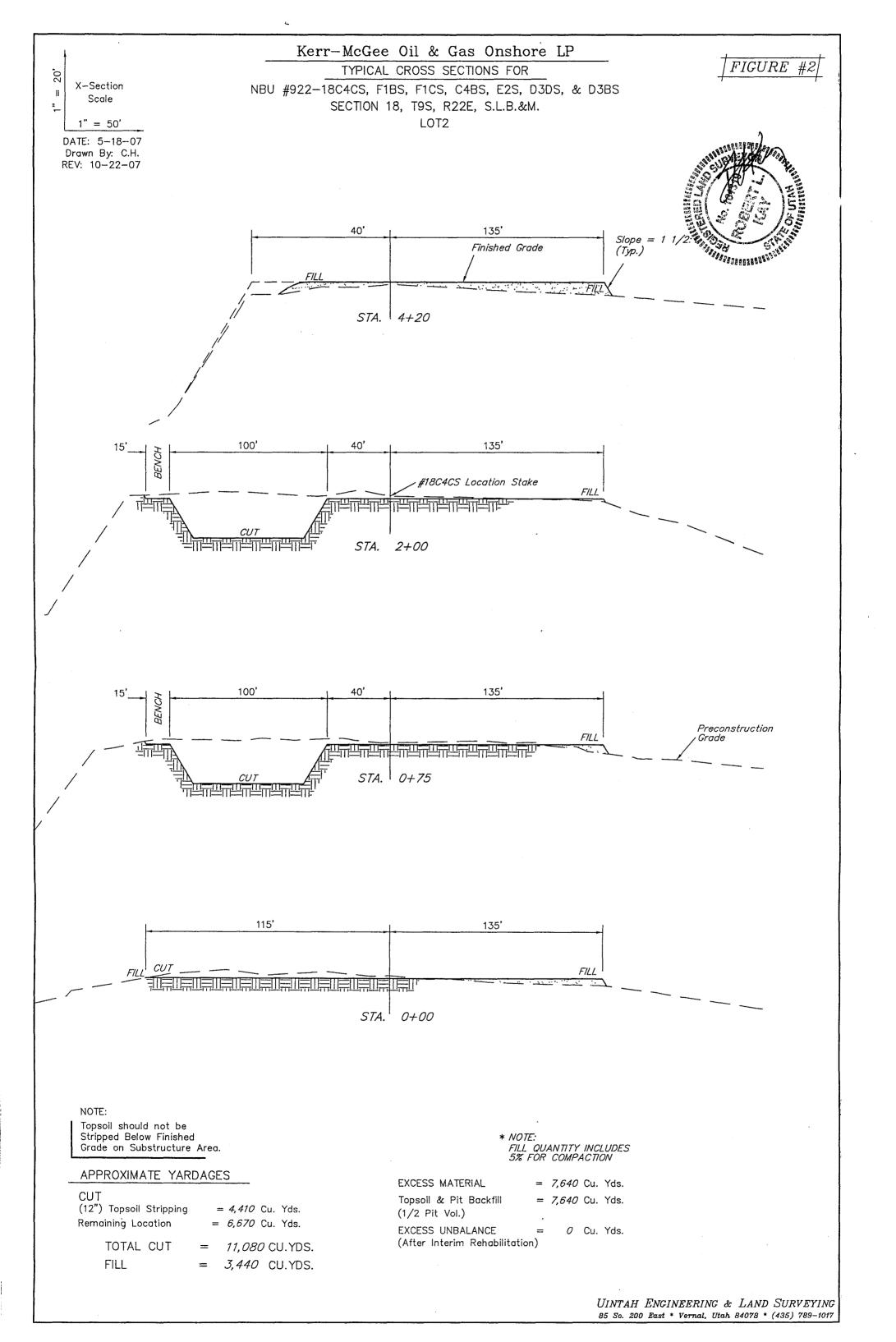
PIPELINE PHOTOS

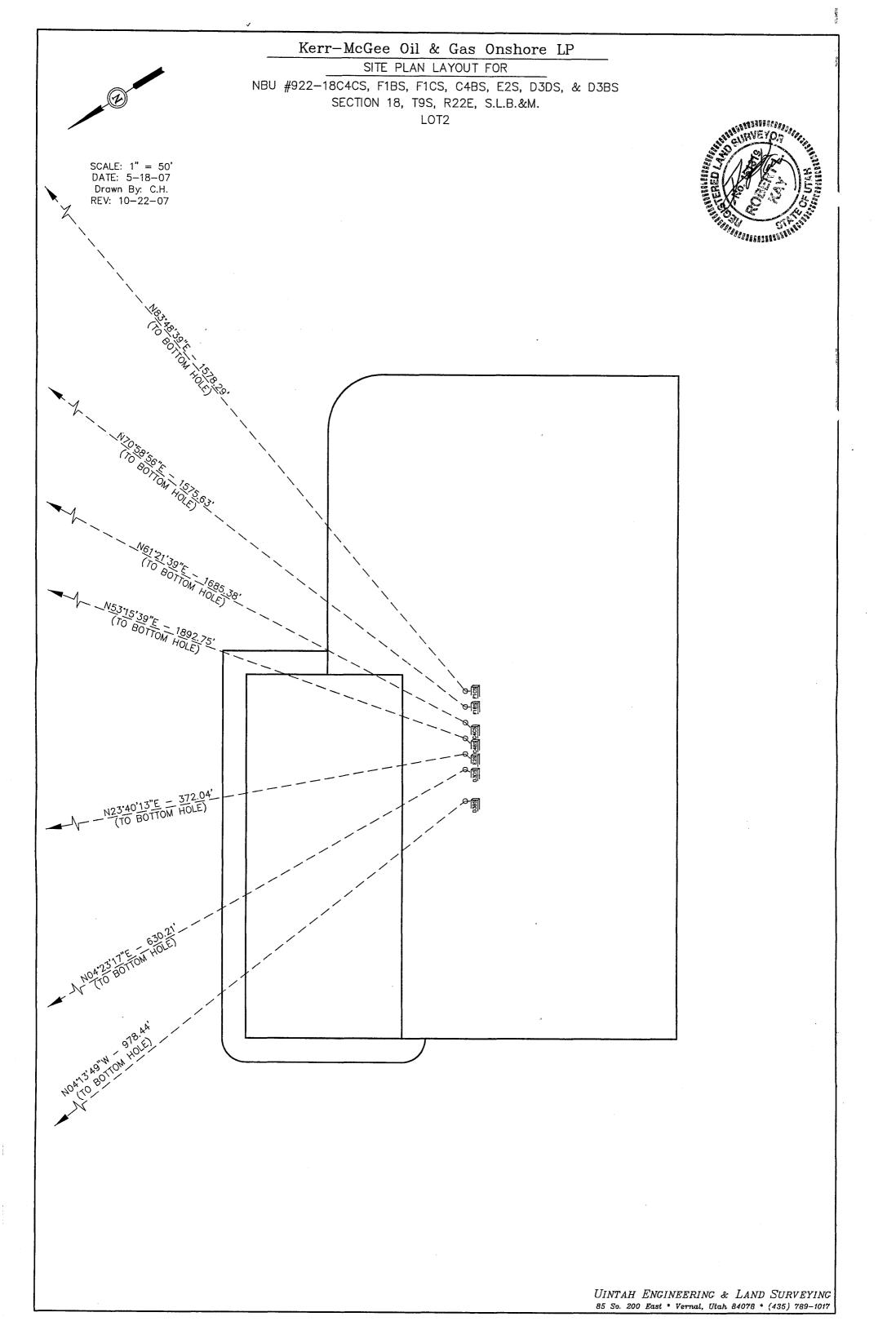
MONTH DAY YEAR

РНОТО

TAKEN BY: L.K. | DRAWN BY: C.P. | REVISED: 00-00-00

Kerr-McGee Oil & Gas Onshore LP SITE PLAN LAYOUT FOR NBU #922-18C4CS, F1BS, F1CS, C4BS, E2S, D3DS, & D3BS SECTION 18, T9S, R22E, S.L.B.&M. LOT2 CHRISTIAN CONTRACTOR OF THE PROPERTY OF THE PR SCALE: 1" = 50' DATE: 5-18-07 Drawn By: C.H. REV: 10-22-07 Approx. Toe of Fill Slope F-3.1' El. 90.0' F-3.2' 9 El. 89.9' Sta. 4+20 F-0.5' 8 El. 92.6' Round Corners as Needed 200, 190, PIPE TUBS C-1.1C-0.9' El. 94.2' El. 94.0' С 52' 48' El. 94.5' C-11.4' В 100' (btm. pit) RESERVE PITS Sta. 2+00 (10' Deep) || F-O. 7' Total Pit Capacity W/2' of Freeboard = 23,810 Bbls. ± Total Pit Volume = 6,460 Cu. Yds. TOILET 🗌 El. 92.4' BENCH WIDE Existing 15, Pipeline Existing Existing 8' X 10' TANK Sta. 0+00 El. 94.1' C—11.0 (btm. pit) F-1.7' El. 91.4' Approx. Top of Cut Slope Existing Access Proposed Access Road NOTES: Elev. Ungraded Ground At #18C4CS Loc. Stake = 4893.7' FINISHED GRADE ELEV. AT #18C4CS LOC. STAKE = 4893.1' UINTAH ENGINEERING & LAND SURVEYING 85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

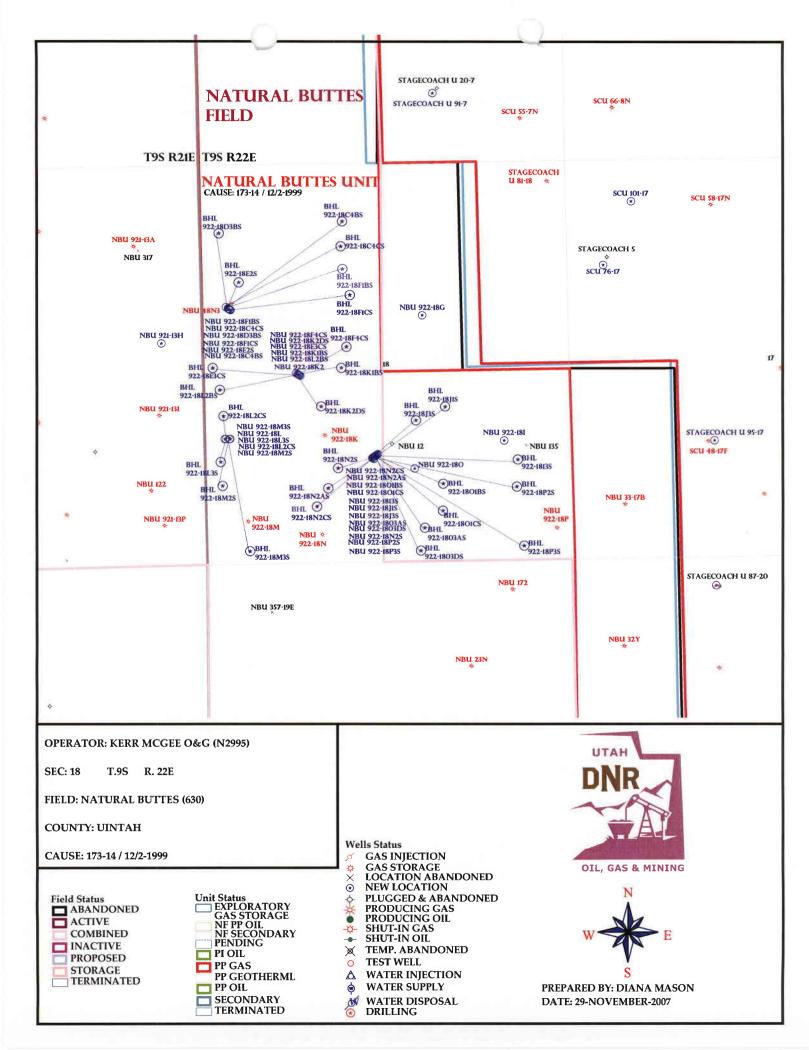




WORKSHEET

APPLICATION FOR PERMIT TO DRILL

AI	PD RECEIVE	D: 11/20/2007		API NO. ASSI	GNED: 43-047	-39845
WE	ELL NAME:	NBU 922-18C4CS				
OI	PERATOR:	KERR-MCGEE OIL & GAS (N2995)		PHONE NUMBER:	435-781-7024	1
CC	ONTACT:	SHEILA UPCHEGO				
PF	ROPOSED LO			INSPECT LOCATI	N BY: /	/
		8 090S 220E 1881 FNL 0370 FWL		Tech Review	Initials	Date
_		1075 FNL 1849 FWL		Engineering		
		UINTAH		Geology		
		40.03809 LONGITUDE: -109.4886 EASTINGS: 628948 NORTHINGS: 44328	368	Surface		
		E: NATURAL BUTTES (630		L		
LE	EASE NUMBE	1 - Federal R: UTU-0359 ER: 2 - Indian		PROPOSED FORMA		7 D
	Plat Bond: (No. Potasi Viater (No. RDCC I (Date	Fed[1] Ind[] Sta[] Fee[] RLB0005239	F Unit:_ F S F	ON AND SITING: 649-2-3. NATURAL BUTTES 649-3-2. Generating: 460 From Quality 460 From Qu	ral etr/Qtr & 920' Be otion 173-14 12-2-19 Lodry Su	GG Lincomm:
CC	OMMENTS: _	So, Sepund, A	U			
SI	TIPULATION:	s:	grano .			



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

November 30, 2007

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2007 Plan of Development Natural Buttes Unit

Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2007 within the Natural Buttes Unit, Uintah County, Utah.

LOCATION

API# WELL NAME

(Proposed PZ Wasatch/MesaVerde)

43-047-39821 NBU 922-18F4CS Sec 18 T09S R22E 2529 FSL 1248 FWL BHL Sec 18 T09S R22E 2406 FNL 1895 FWL

43-047-39822 NBU 922-18K2DS Sec 18 T09S R22E 2508 FSL 1282 FWL

BHL Sec 18 T09S R22E 2099 FSL 1548 FWL

43-047-39823 NBU 922-18E3CS Sec 18 T09S R22E 2540 FSL 1231 FWL BHL Sec 18 T09S R22E 2632 FSL 0136 FWL

43-047-39824 NBU 922-18K1BS Sec 18 T09S R22E 2524 FSL 1256 FWL BHL Sec 18 T09S R22E 2602 FSL 1821 FWL

43-047-39825 NBU 922-18M3S Sec 18 T09S R22E 1688 FSL 0334 FWL

BHL Sec 18 T09S R22E 0203 FSL 0571 FWL

43-047-39826 NBU 922-18L3S Sec 18 T09S R22E 1689 FSL 0274 FWL BHL Sec 18 T09S R22E 1390 FSL 0214 FWL

43-047-39827 NBU 922-18L2CS Sec 18 T09S R22E 1687 FSL 0344 FWL

BHL Sec 18 T09S R22E 1994 FSL 0262 FWL

43-047-39828 NBU 922-18M2S Sec 18 T09S R22E 1689 FSL 0284 FWL BHL Sec 18 T09S R22E 1075 FSL 0232 FWL 43-047-39829 NBU 922-18P3S Sec 18 T09S R22E 1424 FSL 2605 FEL BHL Sec 18 T09S R22E 0203 FSL 0668 FEL 43-047-39830 NBU 922-18P2S Sec 18 T09S R22E 1436 FSL 2588 FEL BHL Sec 18 T09S R22E 0988 FSL 0745 FEL 43-047-39831 NBU 922-18N2S Sec 18 T09S R22E 1402 FSL 2637 FEL BHL Sec 18 T09S R22E 1278 FSL 1753 FWL 43-047-39832 NBU 922-1803DS Sec 18 T09S R22E 1407 FSL 2629 FEL BHL Sec 18 T09S R22E 0165 FSL 2024 FEL 43-047-39833 NBU 922-1803AS Sec 18 T09S R22E 1413 FSL 2621 FEL BHL Sec 18 T09S R22E 0465 FSL 1965 FEL 43-047-39834 NBU 922-1801CS Sec 18 T09S R22E 1419 FSL 2613 FEL BHL Sec 18 T09S R22E 0687 FSL 1723 FEL 43-047-39835 NBU 922-1801BS Sec 18 T09S R22E 1430 FSL 2596 FEL BHL Sec 18 T09S R22E 1046 FSL 1714 FEL 43-047-39836 NBU 922-18C4BS Sec 18 T09S R22E 1875 FNL 0362 FWL BHL Sec 18 T09S R22E 0745 FNL 1878 FWL 43-047-39837 NBU 922-18E2S Sec 18 T09S R22E 1870 FNL 0354 FWL BHL Sec 18 T09S R22E 1529 FNL 0503 FWL 43-047-39838 NBU 922-18F1CS Sec 18 T09S R22E 1892 FNL 0387 FWL BHL Sec 18 T09S R22E 1724 FNL 1956 FWL 43-047-39839 NBU 922-18N2AS Sec 18 T09S R22E 1396 FSL 2228 FWL BHL Sec 18 T09S R22E 1016 FSL 1617 FWL 43-047-39840 NBU 922-18L2BS Sec 18 T09S R22E 2513 FSL 1273 FWL BHL Sec 18 T09S R22E 2344 FSL 0223 FWL 43-047-39841 NBU 922-18D3BS Sec 18 T09S R22E 1853 FNL 0329 FWL BHL Sec 18 T09S R22E 0877 FNL 0256 FWL 43-047-39842 NBU 922-18J3S Sec 18 T09S R22E 1453 FSL 2564 FEL BHL Sec 18 T09S R22E 1888 FSL 2052 FEL 43-047-39843 NBU 922-18J1S Sec 18 T09S R22E 1447 FSL 2572 FEL

BHL Sec 18 T09S R22E 2062 FSL 1665 FEL

43-047-39844 NBU 922-18I3S Sec 18 T09S R022E 1442 FSL 2580 FEL BHL Sec 18 T09S R022E 1346 FSL 0726 FEL

43-047-39845 NBU 922-18C4CS Sec 18 T09S R22E 1881 FNL 0370 FWL BHL Sec 18 T09S R22E 1075 FNL 1849 FWL

43-047-39846 NBU 922-18F1BS Sec 18 T09S R22E 1886 FNL 0379 FWL BHL Sec 18 T09S R22E 1375 FNL 1868 FWL

43-047-39847 NBU 922-18N2CS Sec 18 T09S R22E 1390 FSL 2220 FWL BHL Sec 18 T09S R22E 0775 FSL 1462 FWL

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Natural Buttes Unit
 Division of Oil Gas and Mining
 Central Files
 Agr. Sec. Chron
 Fluid Chron

MCoulthard:mc:11-30-07



State of Utah DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil Gas and Mining

JOHN R. BAZA
Division Director

December 3, 2007

Kerr McKee Oil and Gas Onshore LP 1368 South 1200 East Vernal, UT 84078

Re:

NBU 922-18C4CS Well, Surface Location 1881' FNL, 370' FWL, SW NW, Sec. 18,

T. 9 South, R. 22 East, Bottom Location 1075' FNL, 1849' FWL, NE NW, Sec. 18,

T. 9 South, R. 22 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-39845.

Sincerely,

Gil Hunt

Associate Director

Sig Hat

pab Enclosures

cc:

Uintah County Assessor

Bureau of Land Management, Vernal Office



Operator:	Kerr McKee Oil and Gas Onshore LP				
Well Name & Number	NBU 92	22-18C4CS			
API Number:	43-047-39845				
Lease:	UTU-03	359			
Surface Location: SW NW	Sec. 18	T. 9 South	R. _22 East		
Bottom Location: NE NW	Sec. 18	T. 9 South	R. 22 East		

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division with 24 hours of spudding the well.

• Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

• Contact Dustin Doucet at (801) 538-5281 office (801) 733-0983 home

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

- 4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
- 5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.
- 6 In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

HECEIVED

NOV - 7 2007

Form 3160-3 (August 1999)

2667 NOV 19 PM 12: 33

Expires November 30, 2000

5. Lease Serial No.

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MA	ANAGEMENT	há Nigha	UTU-0359 461	
APPLICATION FOR PERMIT T			6. If Indian, Allottee or Trib TRIBAL SURFACE	be Name
Ia. Type of Work: X DRILL	EENTER		7. If Unit or CA Agreement	t, Name and No.
_			UNIT #891008900A	
			8. Lease Name and Well No	
b. Type of Well: Oil Well Gas Well Other	Single Zone	Multiple Zone	NBU 922-18C4C5	S
2. Name of Operator KERR MCGEE OIL AND GAS ONSHORE LP			9. API Well No. 43 047 39	845
3A. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078	3b. Phone No. (include area co. (435) 781-7024	de)	10. Field and Pool, or Explo	oratory
4. Location of Well (Report location clearly and in accordance wi			11. Sec., T., R., M., or Blk,	and Survey or Area
At surface SW/NW 1881'FNL, 370'FWL (LO	1 2)		250 40 500 5005	
At proposed prod. Zone NE/NW 1075'FNL, 1849'FWL 14. Distance in miles and direction from nearest town or post office	٠.		SEC. 18, T9S, R22E	12 0
17 +/- MILES FROM OURAY, UTAH	;r		12. County or Parish UINTAH	13. State
15. Distance from proposed* location to nearest	16. No. of Acres in lease	17. Spacing Unit de	edicated to this well	
property or lease line, ft. (Also to nearest drig. unit line, if any)	162.39	40.00		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. REFER T TOPO C	19. Proposed Depth 10,185'	20. BLM/BIA Bond RLB0005239	d No. on file	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 4894'GL	22. Approximate date work wi	ll start*	23. Estimated duration TO BE DETERMINE	D
	24. Attachments			
The following, completed in accordance with the requirements of O	nshore Oil and Gas Order No. 1, sl	nall be attached to this	form:	
1. Well plat certified by a registered surveyor.	4. Bond to co	ver the operations up	nless covered by an existing bor	nd on file (see
2. A Drilling Plan.	Item 20 ab	ove).		
3. A Surface Use Plan (if the location is on National Forest System	Lands, the 5. Operator ce	rtification.		
SUPO shall be filed with the appropriate Forest Service Office.	6. Such other authorized	•	ion and/or plans as may be requ	ired by the
25. Separa 19/1/ 10/1/18/1	Name (Printed/Typed,		Date	
//////////////////////////////////////	SHEILA UPCHE	GO	!	11/16/2007

ands & Mineral Resources

08 2008

ERNAL FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001and Title 43 U.S.C make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NOTICE OF APPROVAL

RECEIVED SEP 1 6 2008

DIV. OF OIL, GAS & MINING

NO NOS - Postel 11/14/07 08MIC0098A



UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Kerr-McGee Oil & Gas Onshore, LP Location: LOT 2, Sec. 18, T9S, R22E (S) NENW, Sec. 18, T9S,R22E (B)

Well No: NBU 922-18C4CS Lease No: UTU-461
API No: 43-047-39845 Agreement: Natural Buttes Unit

API No: 43-047-39845		Agreement: Natural I	Buttes Unit
Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	(435) 828-7381
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544
NRS/Enviro Scientist:	James Hereford	(435) 781-3412	
NRS/Enviro Scientist:	Chuck Macdonal	d (435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Dan Emmett	(435) 781-3414	
NRS/Enviro Scientist:	Paul Percival	(435) 781-4493	
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	(435) 828-3546
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	(435) 828-4029
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545

Fax: (435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

NOTIFICATION REQUIREMENTS

Construction Activity	-	The Ute Tribe Energy & Minerals Dept. shall be notified in
		writing 48 hours in advance of any construction activity. The
		Ute Tribal office is open Monday through Thursday.
Construction Completion	-	Upon completion of the pertinent APD/ROW construction,
,		notify the Ute Tribe Energy & Minerals Dept. for a Tribal
		Technician to verify the Affidavit of Completion.
Spud Notice	-	Twenty-Four (24) hours prior to spudding the well.
(Notify Petroleum Engineer)		
Casing String & Cementing	-	Twenty-Four (24) hours prior to running casing and cementing
(Notify Supv. Petroleum Tech.)	ALA CONTRACTOR OF THE CONTRACT	all casing strings.
BOP & Related Equipment Tests	-	Twenty-Four (24) hours prior to initiating pressure tests.
(Notify Supv. Petroleum Tech.)		
First Production Notice	-	Within Five (5) business days after new well begins or
(Notify Petroleum Engineer)		production resumes after well has been off production for more
(2.00-2) =		than ninety (90) days.

COAs: Page 2 of 8 Well: NBU 922-18C4CS

SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

Surface COAs:

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

SITE SPECIFIC COAs:

Additional Stipulations:

None

General Conditions of Approval

- A <u>30</u>' foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.
- A qualified Archaeologist accompanied by a Tribal Technician will monitor trenching construction of pipeline.
- The Ute Tribe Energy & Minerals Department is to be notified, in writing 48 hours prior to construction of pipeline.
- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.
- The Company shall inform contractors to maintain construction of pipelines within the approved ROW's.
- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.
- You are hereby notified that working under the "umbrella" of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.

COAs: Page 3 of 8 Well: NBU 922-18C4CS

 Any deviation of submitted APD's and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.

- The Company will implement "Safety and Emergency Plan." The Company's safety director will ensure its compliance.
- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's and/or ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations shall be confined
 to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- All personnel shall refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.
- The personnel from the Ute Tribe Energy & Minerals Department shall be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.
- All mitigative stipulations contained in the Bureau of Indian Affairs Site Specific Environmental Assessment (EA) will be strictly adhered.

Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

COAs: Page 4 of 8 Well: NBU 922-18C4CS

DOWNHOLE CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- A surface casing shoe integrity test shall be performed.
- Production casing cement top shall be at a minimum of 200' above the surface casing shoe.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each

COAs: Page 5 of 8 Well: NBU 922-18C4CS

encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the <u>top of cement</u> and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

COAs: Page 6 of 8 Well: NBU 922-18C4CS

OPERATING REQUIREMENT REMINDERS:

• All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - o Operator name, address, and telephone number.
 - Well name and number.
 - Well location (½¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - o The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - o Unit agreement and/or participating area name and number, if applicable.
 - o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will
 be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be
 reported verbally within 24 hours, followed by a written report within 15 days. "Other than
 Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on
 the Monthly Report of Operations and Production.

COAs: Page 7 of 8 Well: NBU 922-18C4CS

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
 equipment shall be removed from a well to be placed in a suspended status without prior
 approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30
 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given
 before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

COAs: Page 8 of 8 Well: NBU 922-18C4CS

• Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

Form 3160- 5
(August, 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

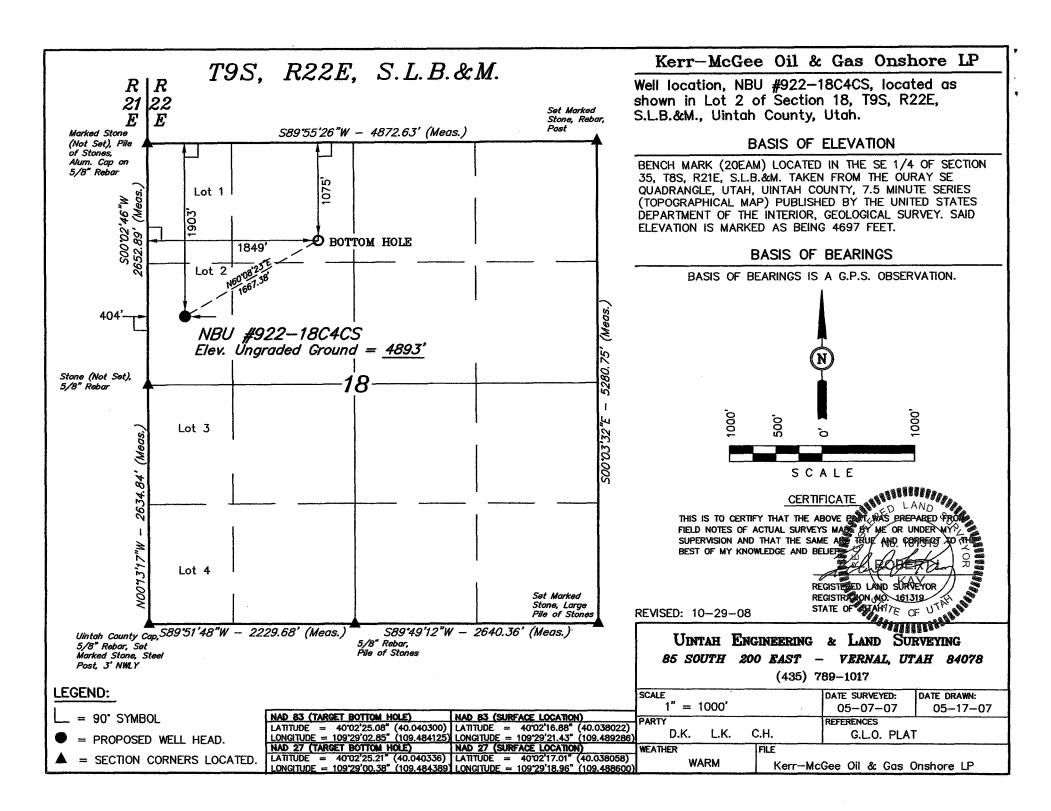
FORM A	PPRO'	VE
OMB No.	1004-	013

OMB N	o.	10	04-	013	3′
Expires	: Jı	ıly	31.	20	ı

5. Lease Serial No.

SUNDRY NOTICES AND RE	UTU-0359	
Do not use this form for proposals		6. If Indian, Allottee, or Tribe Name Ute Tribe
abandoned well. Use Form 3160-3 (SUBMIT IN TRIPLICATE - Other Ins		7. If Unit or CA. Agreement Name and/or No.
1. Type of Well	UTU-63047A	
Oil Well X Gas Well Other	8. Well Name and No.	
2. Name of Operator		NBU 922-18C4CS
Kerr-McGee Oil & Gas Onshore, LP		9. API Well No.
3a. Address	3b. Phone No. (include area code) 720.929.6226	43-047-39845 10. Field and Pool, or Exploratory Area
P.O. Box 173779, Denver, CO 80217-3779 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)	120.320.0220	Natural Buttes
SW NW Sec. 18 T 9S R 22E		11. County or Parish, State
1903 FNL 404 FWL		Uintah
12. CHECK APPROPRIATE BOX(S) TO INDICAT	TE NATURE OF NOTICE, REPOI	RT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent Acidize	Deepen Production (Start/ Resume) Water Shut-off
Altering Casing	Fracture Treat Reclamation	Well Integrity
	New Construction Recomplete	X Other
X Subsequent Report Casing Repair		Ourfood Location
Change Plans	Plug and abandon Temporarily	Abandon Surface Location
Final Abandonment Notice Convert to Injection 13. Describe Proposed or Completed Operation (clearly state all pertinent detail	Plug back Water Dispos	
Kerr-McGee Oil & Gas Onshore, LP, re surface location have been moved to S location has not been changed. L28959X 40.6386 44328424 109.48	WNW 1903' FNL & 404	ne center stakes for the 'FWL. The bottomhole COPY SENT TO OPERATOR Date: 12,30,2008 Initials: KS
14. I hereby certify that the foregoing is true and correct. Name (Printed/ Typed)		
Kevin McIntyre	Title	Regulatory Analyst
Signature L: n.	Date	11/11/08
THIS SPACE FOR F	EDERAL OR STÂTE OFFICE	USE
Approved by Free LAND	BRADLEY G. H	ILL Date 12-22-08
Conditions of approval, if any are attended. Approval of this notice does not war certify that the applicant holds legal or equitable title to those rights in the subject	rant or ENVIRONMENTAL MANA	AGER
which would entitle the applicant to conduct operations thereon. Title 18 U.S.C. Section 1001 AND Title 43 U.S.C. Section 1212, make it a crim	e for any person knowingly and willfully to m	ake any department
States any false, fictitious or fraudulent statements or representations as to any material (instructions on page 2)	atter within its jurisdiction.	NOV 17 core

NOV 17 2008





December 15, 2008

Mrs. Diana Mason Divison of Oil, Gas, and Mining P.O. Box 145801 Salt Lake City, UT 84114-6100

43 047 39845 Directional Drilling R649-3-11

NBU 922-18C4CS

T9S R22E

Section 18: NENW

SWNW 1903' FNL & 404' FWL (surface) NENW 1075' FNL & 1849' FWL (bottom hole) Uintah County, Utah

Dear Ms. Mason:

RE:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- Kerr-McGee's NBU 922-18C4CS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information Kerr-McGee Oil & Gas Onshore, LP, requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

Kevin McIntyre

Regulatory Analyst

Ki me

DEPARTMENT OF NATURAL RESC	MIDCES	FORM
DIVISION OF OIL, GAS AND		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0359
SUNDRY NOTICES AND REPOR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tribe	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below drilf horizontal laterals. Use APPLICATION FOR PERMIT TO DRI	7. UNIT OF CA AGREEMENT NAME: 891008900A	
1. TYPE OF WELL OIL WELL GAS WELL OTHER		8. WELL NAME and NUMBER:
2. NAME OF OPERATOR:		NBU 922-18C4CS 9. API NUMBER:
Kerr-McGee Oil & Gas Onshore, LP	PHONE NUMBER:	4304739845
3. ADDRESS OF OPERATOR: P.O. Box 173779 CITY Denver STATE CO	10. FIELD AND POOL, OR WILDCAT: Natural Buttes Field	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1903' FNL & 404' FWL		соинту: Uintah
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 18 9S	22E (1969)	STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDIC	ATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
✓ NOTICE OF INTENT	DEEPEN	REPERFORATE CURRENT FORMATION
(Submit in Duplicate) ALTER CASING	FRACTURE TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will start: CASING REPAIR	NEW CONSTRUCTION	TEMPORARILY ABANDON
CHANGE TO PREVIOUS PLANS	OPERATOR CHANGE	TUBING REPAIR
CHANGE TUBING	PLUG AND ABANDON	VENT OR FLARE
SUBSEQUENT REPORT CHANGE WELL NAME (Submit Original Form Only)	PLUG BACK	WATER DISPOSAL
Date of work completion:	PRODUCTION (START/RESUME)	WATER SHUT-OFF
COMMINGLE PRODUCING FORMATION		✓ OTHER: APD Extension
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly shows	RECOMPLETE - DIFFERENT FORMATION	
Oil, Ga Date: By:	oved by the Division of as and Mining	2007.
NAME (PLEASE PRINT) Kevin McIntyre	TITLE Regulatory Analy	yst
SIGNATURE Kim	DATE 12/9/2008	
(This space for State use only)		DEOCUES
COPY SENT TO OPERATOR		RECEIVED
Date: 17.430×7.60\$	DEC 1 1 2008	

(5/2000)

Initials:

(See Instructions on Reverse Side)

DIV. OF OIL, GAS & MINING

Application for Permit to Drill Request for Permit Extension Validation

Validation
(this form should accompany the Sundry Notice requesting permit extension)

API: <i>N</i> ell Name:	4304739845 NBU 922-18C4CS		
_ocation:		& 404' FWL, Sec. 18, T9S R2	22E
Company Per	mit Issued to:	Kerr-McGee Oil & Gas Ons	
Date Original	Permit Issued:	12/3/2007	
above, hereby	verifies that the	n legal rights to drill on the information as submitte mains valid and does no	
Following is a verified.	checklist of some	e items related to the ap	plication, which should be
•	rivate land, has t en updated? Yes	he ownership changed, □No☑	if so, has the surface
•		the vicinity of the propos nts for this location? Ye	sed well which would affect s ☐ No ☑
	•	er agreements put in pla proposed well? Yes⊟No	
	•	to the access route inclu proposed location? YesI	uding ownership, or right- ⊒ No ☑
Has the appro	ved source of wa	ater for drilling changed?	' Yes□ No☑
	ire a change in p	changes to the surface lolans from what was dis	ocation or access route cussed at the onsite
s bonding still	in place, which o	covers this proposed we	ll? Yes ☑No□
K-n	7. <i>1</i>		12/9/2008
Signature			Date
Title: Regulator	y Analyst		
Representing:	Kerr-McGee Oil &	à Gas Onshore, LP	RECEIVED DEC 11 2000

DIV. OF OIL, GAS & MINING

SUNDRY NOTICES AND REPORTS ON WELLS On not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. 1. TYPE OF WELL Gas Well 2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. 3. ADDRESS OF OPERATOR: F.O. BOX 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 4. LOCATION OF WELL FOOTAGES AT SURFACE: QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 18 Township: 09.0S Range: 22.0E Meridian: S 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-0359 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES 8. WELL NAME and NUMBER: A3047398450000 9. API NUMBER: A3047398450000 9. FIELD and POOL or WILDCAT: NATURAL BUTTES OCOUNTY: UINTAH STATE: UTAH 1. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. 1. TYPE OF WELL Gas Well 2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. 3. ADDRESS OF OPERATOR: PHONE NUMBER: NATURAL BUTTES 3. ADDRESS OF OPERATOR: PHONE NUMBER: NATURAL BUTTES 4. LOCATION OF WELL FOOTAGES AT SURFACE: 1903 FNL 0404 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 18 Township: 09.0S Range: 22.0E Meridian: S
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STATE: UTAH
A3047398450000 3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 4. LOCATION OF WELL FOOTAGES AT SURFACE: 1903 FNL 0404 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 18 Township: 09.0S Range: 22.0E Meridian: S 11.
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FOOTAGES AT SURFACE: 1903 FNL 0404 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 18 Township: 09.0S Range: 22.0E Meridian: S 11.
Qtr/Qtr: SWNW Section: 18 Township: 09.0S Range: 22.0E Meridian: S
TYPE OF SUBMISSION TYPE OF ACTION
☐ ACIDIZE ☐ ALTER CASING ☐ CASING REPAIR
☐ NOTICE OF INTENT ☐ CHANGE TO PREVIOUS PLANS ☐ CHANGE TUBING ☐ CHANGE WELL NAME Approximate date work will start: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
CHANGE WELL STATUS COMMINGLE PRODUCING FORMATIONS CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion: DEEPEN DE
☐ OPERATOR CHANGE ☐ PLUG AND ABANDON ☐ PLUG BACK
SPUD REPORT Date of Spud: PRODUCTION START OR RESUME RECLAMATION OF WELL SITE RECOMPLETE DIFFERENT FORMATION
5/29/2009 REPERFORATE CURRENT FORMATION SIDETRACK TO REPAIR WELL TEMPORARY ABANDON
TUBING REPAIR VENT OR FLARE WATER DISPOSAL
□ DRILLING REPORT Report Date: □ WATER SHUTOFF □ SI TA STATUS EXTENSION □ APD EXTENSION
□ WILDCAT WELL DETERMINATION □ OTHER: OTHER:
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40". RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELLAccepted by the LOCATION ON 05/29/2009 AT 1230 HRS. Utah Division of Oil, Gas and Mining FOR RECORD ONLY
NAME (PLEASE PRINT) Sheila Upchego PHONE NUMBER 435 781-7024 TITLE Regulatory Analyst
SIGNATURE DATE N/A 6/1/2009

	FORM 9						
	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0359						
	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE					
	sals to drill new wells, significantly deepen exi gged wells, or to drill horizontal laterals. Use .		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES				
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 922-18C4CS				
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONS	HORE, L.P.		9. API NUMBER: 43047398450000				
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th S	treet, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES				
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1903 FNL 0404 FWL			COUNTY: UINTAH				
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: SWNW Section: 18	IP, RANGE, MERIDIAN: 3 Township: 09.0S Range: 22.0E Meridian: S		STATE: UTAH				
11. CHE	CK APPROPRIATE BOXES TO INDICATE I	NATURE OF NOTICE, REPORT,	OR OTHER DATA				
TYPE OF SUBMISSION		TYPE OF ACTION					
	☐ ACIDIZE ☐	ALTER CASING	CASING REPAIR				
NOTICE OF INTENT Approximate date work will start:	☐ CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME				
	☐ CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE				
SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN ☐	FRACTURE TREAT	NEW CONSTRUCTION				
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK				
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION				
Date of Spud:	☐ REPERFORATE CURRENT FORMATION ☐	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON				
	☐ TUBING REPAIR ☐	VENT OR FLARE	WATER DISPOSAL				
✓ DRILLING REPORT Report Date:	□ WATER SHUTOFF □	SI TA STATUS EXTENSION	APD EXTENSION				
6/20/2009	☐ WILDCAT WELL DETERMINATION ☐	OTHER	OTHER:				
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU PROPETRO AIR RIG ON 06/18/2009. DRILLED 12 1/4" SURFACE HOLE TO 2830'. RAN 9 5/8" 40# J-55 SURFACE CSG. LEAD CMT W/270 SX HIFILIAccepted by the CLASS G @11.0 PPG 3.38 YIELD. TAILED CMT W/200 SX PREM CLASS G Utah Division of @15.8 PPG 1.15 YIELD. TOP OUT W/200 SX PREM CLASS G @15.8 PPG 1.051, Gas and Mining YIELD. CMT TO SURFACE HOLE STAYED FULL. WORT FOR RECORD ONLY							
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst					
SIGNATURE N/A		DATE 6/24/2009					

	STATE OF UTAH		FORM 9				
	es NING	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0359					
	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE					
	sals to drill new wells, significantly deepen ugged wells, or to drill horizontal laterals. U		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES				
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3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th S	treet, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES				
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QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: SWNW Section: 18	IP, RANGE, MERIDIAN: 8 Township: 09.0S Range: 22.0E Meridian:	: S	STATE: UTAH				
11. CHE	CK APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPORT,	OR OTHER DATA				
TYPE OF SUBMISSION		TYPE OF ACTION					
	ACIDIZE	ALTER CASING	CASING REPAIR				
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME				
Approximate date work will start:	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE				
SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION				
	OPERATOR CHANGE	PLUG AND ABANDON	☐ PLUG BACK				
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION				
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON				
	☐ TUBING REPAIR	☐ VENT OR FLARE	WATER DISPOSAL				
DRILLING REPORT Report Date:	☐ WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION				
8/28/2009	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:				
12. DESCRIBE PROPOSED OR CO	DMPLETED OPERATIONS. Clearly show all pe	rtinent details including dates, depths, v	olumes, etc.				
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. FINISHED DRILLING FROM 2,830′ TO 10,180′ ON 08/26/2009. RAN 4-1/2″ 11.6# I-80 PRODUCTION CSG. PUMP 40 BBLS H20 W/ NO BREAK. LEAD CMAccepted by the W/ 625 SX PREM LITE @ 11.8 PPG, 2.42 YIELD. TAILED CMT W/ 1,278 SX Utah Division of 50/50 POZ @ 14.3 PPG, 1.31 YIELD. FULL RETURNS @ 60 BBLS TAIL Oil, Gas and Mining PUMPED/ DROP PLUG & DISPLACE W/ 158 BBLS H2O + ADDITIVES. FOR RECORD ONLY RETURNS 45 BBLS INTO DISPLACEMENT W/ PARTIAL RETURNS THROUGHOUT DISPLACEMENT. LIFT PRESSURE @ 2630 PSI, BUMP PLUG W/ 3275 PSI, HOLD FIVE MIN. W/ NO LOSS. PLUG DOWN @ 11:00 HRS W/ NO CMT TO SURFACE, FLOATS HELD W/ 2.0 BBLS BACK TO INVENTORY. RELEASE H&P 298 RIG ON 08/28/2009 AT 13:00 HRS.							
NAME (PLEASE PRINT)	PHONE NUMBER						
Andy Lytle SIGNATURE	720 929-6100	Regulatory Analyst DATE					
N/A		8/31/2009					

	FORM 9		
	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0359		
SUNDE	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE		
	sals to drill new wells, significantly deeper ugged wells, or to drill horizontal laterals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 922-18C4CS
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	3 Township: 09.0S Range: 22.0E Meridian	: S	STATE: UTAH
11. CHE	CK APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPORT,	OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	☐ ACIDIZE	ALTER CASING	☐ CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING COMMINGLE PRODUCING FORMATIONS	CHANGE WELL NAME
SUBSEQUENT REPORT	☐ CHANGE WELL STATUS	FRACTURE TREAT	☐ CONVERT WELL TYPE ☐ NEW CONSTRUCTION
Date of Work Completion:	OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
SPUD REPORT	✓ PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	WATER DISPOSAL
✓ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
11/20/2009	☐ WILDCAT WELL DETERMINATION	OTHER	OTHER:
THE SUBJECT WELL V	OMPLETED OPERATIONS. Clearly show all per VAS PLACED ON PRODUCTION REPORTED THE ATTACHED CHRONCE	N ON 11/20/2009 AT 10:00 DLOGICAL WELL HISTORY. A U Oil	
NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	R TITLE Regulatory Analyst	
SIGNATURE N/A		DATE 11/23/2009	

Operation Summary Report

 Well: NBU 922-18C4CS (BLUE)
 Spud Conductor: 5/29/2009
 Spud Date: 6/17/2009

 Project: UTAH-UINTAH
 Site: NBU 922-18E PAD
 Rig Name No: ELENBURG 12/12, H&P 298/298

 Event: DRILLING
 Start Date: 6/16/2009
 End Date: 8/28/2009

Active Datum: RKB @4,920.00ft (above Mean Sea UWI: 0/9/S/22/E/18/0/SWNW/6/PM/N/1,903.00/W/0/404.00/0/0

Level)	-	16	Mercura	A-4-	6.4	001	14D =	
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/17/2009	7:00 - 11:30	4.50	MIRU	01	A	Р	<u> </u>	MIRU
	11:30 - 15:00	3.50	MIRU	01	В	P		RURT
	15:00 - 17:00	2.00	PRPSPD	06	Α	Р		P/U BIT #1,MUD MTR,,DIR TOOLS
	17:00 - 0:00	7.00	DRLSUR	02	D	Р		DIR DRILL F,40 TO 490',SURVEY EVERY 90,
6/18/2009	0:00 - 14:30	14.50	DRLSUR	02	D	Р		DIR DRILL 490' TO 1390 ,SURVEY 90',
	14:30 - 15:00	0.50	DRLSUR	07	Α	Р		RIG SERVICE
	15:00 - 0:00	9.00	DRLSUR	02	D	Р		DIR DRILL F/1390 TO ,SURVEY EVERY 90,
6/19/2009	0:00 - 14:30	14.50	DRLSUR	02	D	Р		DIR DRILL F/1780 TO 2290 ,SURVEY EVERY 90'
	14:30 - 15:00	0.50	DRLSUR	07	Α	Ρ		RIG SERVICE
	15:00 - 16:00	1.00	DRLSUR	80	В	Z		WORK ON PUMPS
	16:00 - 0:00	8.00	DRLSUR	02	D	Р		DIR DRILL F/2290 TO 2530 ,SURVEY EVERY 90
6/20/2009	0:00 - 11:30	11.50	DRLSUR	02	D	Р		DIR DRILLF/1830 TO 2760 ,
	11:30 - 12:00	0.50	DRLSUR	07	Α	Р		RIG SERVICE
	12:00 - 15:00	3.00	DRLSUR	02	D			DIR DRILL F/2760 TO 2830,SURVEY=16.82AZ 60.3, 20' HIGH & 3' LEFT
	15:00 - 16:00	1.00	DRLSUR	05	С	Р		CIRC ,CLEAN HOLE TO LDDP
	16:00 - 19:00	3.00	CSG	06	D	Р		LDDP & BHA F/CSG RUN
	19:00 - 22:00	3.00	CSG	12	С	P		RUN 65 JTS #40 J55 9.625 CSG TO 2812'
	22:00 - 0:00	2.00	CSG	12	Е	Р		PUMP CEMENT ,RIG RELEASE@ 23:59 6/20/09
8/19/2009	9:00 - 9:30	0.50	RDMO	01	Ε	Р		RIG DOWN EQUIPMENT TO SKID
	9:30 - 10:00	0.50	RDMO	01	C	P		SKID RIG F/ NBU 922-18C4BS - T/ NBU 922-18C4CS
	10:00 - 10:30	0.50	RDMO	01	В	Р		RIG UP EQUIPMENT AFTER SKID
	10:30 - 11:00	0.50	PRPSPD	14	Α	Р		NIPPLE UP B.O.P.E.
	11:00 - 16:00	5.00	PRPSPD	15	Α	P		PRESSURE TEST PIPE RAMS, BLIND RAMS, IBOP, FLOOR VALVE, KILL LINES & KILL LINE VALVES, BOP WING VALVES, HCR VALVE + CHOKE LINE; INNER AND OUTER CHOKE VALVES & MANIFOLD TO 250 PSI LOW @ 5 MINUTES + 5000 PSI HIGH @ 10 MINUTES / TEST ANNULAR TO 250 PSI LOW @ 5 MINUTES + 2500 PSI HIGH @ 10 MINUTES / TEST SUPER CHOKE + SURFACE CASING TO 1500 PSI @ 30 MINUTES - FUNCTION TEST CLOSING UNIT - PASSED
•	16:00 - 16:30	0.50	PRPSPD	07	Α	Р		SERVICE RIG & EQUIPMENT
	16:30 - 21:00 21:00 - 22:00	4.50 1.00	PRPSPD	06 02	A F	P P		MAKE UP & ORIENTATE M.W.D. TOOLS / PARTICAL & VISUAL INSPECTION ON H.W.D.P. WHILE T.I.H. / T.I.H. / INSTALL ROTATING RUBBER / TAD CEMENT @ 2772' / PRESSURE TEST PUMPS, LINES & TOP DRIVE TO 2500 P.S.I. BREAK CIRCULATION & DRILL FLOAT TRAC.
	22:00 - 0:00	2.00	PRPSPD	02	D	P		DRILL (ROTATE & SLIDE) F/ 2830" – T/ 2986' =
	22.00	2.00	TATOFU	02	J	F		156' @ 78.0 FPH / WOB 10/14 / RPM TOP DRV 30-35 / MTR 99 RPM / PUMP SPM 100 = 450 GPM / SPP ON/OFF 1650/1400 / TQ ON/OFF 6K-3K / PU/SO/ROT 110/85/96 / H2O + POLY / SLIDE 10' IN .42 HRS = 6.4% OF FOOTAGE DRILLED & 21% OF HOURS DRILLED

11/23/2009

			O	peral	lon S	Uni	ary Repor	
Well: NBU 922	2-18C4CS (BLUE)		Spud Co	onductor	: 5/29/20	009	Spud Date: 6	/17/2009
Project: UTAH	-UINTAH		Site: NB	U 922-1	BE PAD			Rig Name No: ELENBURG 12/12, H&P 298/298
Event: DRILLII	NG		Start Da	te: 6/16/	2009		. ,	End Date: 8/28/2009
Active Datum: Level)	Active Datum: RKB @4,920.00ft (above Mean S Level)			ean Sea UWI: 0/9/S/22/E/18/0/			WNW/6/PM/N/1	,903.00/W/0/404.00/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
8/20/2009	0:00 - 6:00	6.00	DRLPRO	02	D	Р		DRILL F/ 2971' - T/ 3482' = 511' @ 85.16 FPH / H2O + POLYMER / WOB 14K-17K / TOP DRIVE RPM 35-40 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 1725/1450 PSI / MUD MOTOR RPM 99 / PU/SO/ROT WT 119/95/105 / TORQUE ON/OFF BOTTOM 7K/3K / SLIDE 112' IN 2.69 HRS = 21.9% OF FOOTAGE DRILLED & 44.8% OF HOURS DRILLED
	6:00 - 17:30	11.50	DRLPRO	02	D	Р		DRILL F/ 3482' – T/ 4406' = 924' @ 80.3 FPH / H2O + POLYMER / WOB 18K-19K / TOP DRIVE RPM 35-40 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 1960/1586 PSI / MUD MOTOR RPM 99 / PU/SO/ROT WT 150/96/113 / TORQUE ON/OFF BOTTOM 6K/4K / SLIDE 248' IN 5.34 HRS = 26.8% OF FOOTAGE DRILLED & 46.4% OF HOURS DRILLED
	17:30 - 18:00	0.50	DRLPRO	07	Α	Р		SERVICE RIG & EQUIPMENT / WORK PIPE RAMS / VISUAL INSPECTION ON B.O.P.E.
	18:00 - 0:00	6.00	DRLPRO	02	D	Р		DRILL F/ 4406' – T/ 4750' = 344' @ 57.3 FPH / H2O + POLYMER / WOB 18K-19K / TOP DRIVE RPM 35-40 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 1900/1585 PSI / MUD MOTOR RPM 99 / PU/SO/ROT WT 150/102/121 / TORQUE ON/OFF BOTTOM 9K/5K / SLIDE 166' IN 3.09 HRS = 48.2% OF FOOTAGE DRILLED & 51.5% OF HOURS DRILLED
8/21/2009	0:00 - 6:00	6.00	DRLPRO	02	D	Р		DRILL (ROTATE/SLIDE) F/ 4750' - T/ 5048' = 298' @ 49.6 FPH / H2O + POLYMER / WOB 18K-19K / TOP DRIVE RPM 35-40 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 1935/1610 PSI / MUD MOTOR RPM 99 / PU/SO/ROT WT 160/100/126 / TORQUE ON/OFF BOTTOM 11K/6K / SLIDE 192' IN 4.0 HRS = 64.4% OF FOOTAGE DRILLED & 66.6% OF HOURS DRILLED
	6:00 - 17:00	11.00	DRLPRO	02	D	P		DRILL (ROTATE/SLIDE) F/ 5048' – T/ 5825' = 777' @ 70.63 FPH / H2O + POLYMER / WOB 18K-20K / TOP DRIVE RPM 35-40 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2060/1660 PSI / MUD MOTOR RPM 99 / PU/SO/ROT WT 165/110/135 / TORQUE ON/OFF BOTTOM 10K/7K / SLIDE 173' IN 4.0 HRS = 22.2% OF FOOTAGE DRILLED & 36.3% OF HOURS DRILLED
	17:00 - 17:30	0.50	DRLPRO	07	Α	Р		SERVICE RIG & EQUIPMENT / WORK PIPE RAMS / VISUAL INSPECTION ON B.O.P.E.
	17:30 - 0:00	6.50	DRLPRO	02	D	Р		DRILL (ROTATE/SLIDE) F/ 5825' - T/ 6391' = 566' @ 87.01 FPH / H2O + POLYMER / WOB 18K-20K / TOP DRIVE RPM 35-40 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2450/2100 PSI / MUD MOTOR RPM 109 / PU/SO/ROT WT 200/111/146 / TORQUE ON/OFF BOTTOM 13K/9K / SLIDE 62' IN 2.67 HRS = 10.9% OF FOOTAGE DRILLED & 41.0% OF HOURS DRILLED

11/23/2009 1:25:33PM

Well: NBU 922	2-18C4CS (BLUE))	Spud Co	onductor	: 5/29/20	009	Spud Date: 6	6/17/2009
Project: UTAH	I-UINTAH		Site: NB	U 922-1	8E PAD			Rig Name No: ELENBURG 12/12, H&P 298/298
Event: DRILLI	NG		Start Da	te: 6/16/	2009			End Date: 8/28/2009
Active Datum: Level)	RKB @4,920.00ft	(above Mear	Sea	UWI: 0	/9/S/22/E	E/18/0/S	WNW/6/PM/N/	1,903.00/W/0/404.00/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
8/22/2009	0:00 - 6:00 6:00 - 17:30	6.00	DRLPRO DRLPRO	02	D	P		DRILL (ROTATE/SLIDE) F/ 6391' – T/ 6931' = 540' @ 90.0 FPH / H2O + POLYMER / WOB 18K-20K / TOP DRIVE RPM 35-40 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2450/2100 PSI / MUD MOTOR RPM 109 / PU/SO/ROT WT 220/115/153 / TORQUE ON/OFF BOTTOM 13K/10K / SLIDE 28' IN .75 HRS = 5.1% OF FOOTAGE DRILLED & 12.5% OF HOURS DRILLED DRILL (ROTATE/SLIDE) F/ 6931' – T/ 7532' = 601'
								@ 52.2 FPH / WOB 18K-20K / TOP DRIVE RPM 35-40 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2300/2075 PSI / MUD MOTOR RPM 109 / PU/SO/ROT WT 230/120/162 / TORQUE ON/OFF BOTTOM 14K/12K / SLIDE 40' IN 1.5 HRS = 6.6% OF FOOTAGE DRILLED & 13% OF HOURS DRILLED / START LITE MUD UP @ 7000' / ADDING WHOLE MUD FROM ON LOCATION STORAGE / 33 VIS - 9.3 PPG
	17:30 - 18:00	0.50	DRLPRO	07	Α	Р		SERVICE RIG & EQUIPMENT / WORK PIPE RAMS / VISUAL INSPECTION ON B.O.P.E.
	18:00 - 0:00	6.00	DRLPRO	02	D	Р		DRILL (ROTATE/SLIDE) F/ 7532' - T/ 7735' = 230' @ 33.8 FPH / WOB 18K-21K / TOP DRIVE RPM 35-40 / PUMP 105 SPM = 473 GPM / PUMP PRESSURE ON/OFF BOTTOM 2250/2000 PSI / MUD MOTOR RPM 104 / PU/SO/ROT WT 240/126/166 / TORQUE ON/OFF BOTTOM 14K/12K / SLIDE 34' IN 1.25 HRS = 14.7% OF FOOTAGE DRILLED & 20.8% OF HOURS DRILLED / 36 VIS - 9.6 PPG
8/23/2009	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL (ROTATE/SLIDE) F/ 7735' - T/ 7945' = 210' @ 35.0 FPH / WOB 20K-23K / TOP DRIVE RPM 35-40 / PUMP 105 SPM = 473 GPM / PUMP PRESSURE ON/OFF BOTTOM 2330/2050 PSI / MUD MOTOR RPM 104 / PU/SO/ROT WT 248/126/168 / TORQUE ON/OFF BOTTOM 14K/12K / SLIDE 28' IN 1.0 HRS = 13.3% OF FOOTAGE DRILLED & 16.6% OF HOURS DRILLED / 34 VIS - 9.8 PPG / WEIGHT RAISED TO CONTROL SHALE
	6:00 - 17:30	11.50	DRLPRO	02	D	P		DRILL (ROTATE/SLIDE) F/ 7945' – T/ 8370' = 425' @ 36.9 FPH / WOB 19K-21K / TOP DRIVE RPM 30-35 / PUMP 105 SPM = 473 GPM / PUMP PRESSURE ON/OFF BOTTOM 2430/2236 PSI / MUD MOTOR RPM 104 / PU/SO/ROT WT 250/134/170 / TORQUE ON/OFF BOTTOM 16K/14K / SLIDE 40' IN 1.75 HRS = 9.4% OF FOOTAGE DRILLED & 15.2% OF HOURS DRILLED / 40 VIS – 10.5 PPG
	17:30 - 18:00	0.50	DRLPRO	07	Α	Р		SERVICE RIG & EQUIPMENT / WORK PIPE RAMS
	18:00 - 0:00	6.00	DRLPRO	02	D	P		/ VISUAL INSPECTION ON B.O.P.E. DRILL (ROTATE/SLIDE) F/ 8370' - T/ 8590' = 220' @ 36.6 FPH / WOB 19K-21K / TOP DRIVE RPM 35-45 / PUMP 105 SPM = 473 GPM / PUMP PRESSURE ON/OFF BOTTOM 2570/2300 PSI / MUD MOTOR RPM 104 / PU/SO/ROT WT 245/130/174 / TORQUE ON/OFF BOTTOM 15K/14K / SLIDE 59' IN 2.5 HRS = 26.8% OF FOOTAGE DRILLED & 41.6% OF HOURS DRILLED / 40 VIS - 10.5 PPG

11/23/2009 1:25:33PM

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Well: NBU 922	-18C4CS (BLI	JE)	Spud Co	onductor	r: 5/29/20	009	Spud Date	e: 6/17/2009
Project: UTAH	-UINTAH		Site: NB	U 922-1	8E PAD			Rig Name No: ELENBURG 12/12, H&P 298/298
Event: DRILLII			Start Da	T				End Date: 8/28/2009
Active Datum: Level)	RKB @4,920.0	0ft (above Mear	Sea	UWI: 0)/9/S/22/I	E/18/0/9	SWNW/6/PM/	N/1,903.00/W/0/404.00/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD Fron	n Operation
8/24/2009	0:00 - 6:0	0 6.00	DRLPRO	02	D	P		DRILL (ROTATE/SLIDE) F/ 8590' - T/ 8774' = 184' @ 30.66 FPH / WOB 19K-21K / TOP DRIVE RPM 35-45 / PUMP 105 SPM = 473 GPM / PUMP PRESSURE ON/OFF BOTTOM 2575/2310 PSI / MUD MOTOR RPM 104 / PU/SO/ROT WT 248/131/175 / TORQUE ON/OFF BOTTOM 15K/13K / SLIDE 17' IN .83 HRS = 9.2% OF FOOTAGE DRILLED & 13.8% OF HOURS DRILLED / 43 VIS - 10.5 PPG
	6:00 - 18:0	00 12.00	DRLPRO	02	D	P		DRILL (ROTATE/SLIDE) F/ 8774' - T/ 9128' = 354' @ 29.5 FPH / WOB 19K-21K / TOP DRIVE RPM 30-40 / PUMP 105 SPM = 473 GPM / PUMP PRESSURE ON/OFF BOTTOM 2778/2545 PSI / MUD MOTOR RPM 104 / PU/SO/ROT WT 258/140/180 / TORQUE ON/OFF BOTTOM 16K/14K / SLIDE 107' IN 4.5 HRS = 30.2% OF FOOTAGE DRILLED & 37.5% OF HOURS DRILLED / 44 VIS - 11.0 PPG / MUD WEIGHT RAISED TO CONTROL SHALE / HOLE TAKING FLUID - SWEEPS WOULD NOT HEAL - BYPASSED & ADDED 3% LCM TO ACTIVE SYSTEM
	18:00 - 18:	30 0.50	DRLPRO	07	Α	Р		SERVICE RIG & EQUIPMENT / WORK PIPE RAMS / VISUAL INSPECTION ON B.O.P.E.
	18:30 - 0:0	0 5.50	DRLPRO	02	D	P		DRILL (ROTATE/SLIDE) F/ 9128' - T/ 9304' = 176' @ 32.0 FPH / WOB 19K-21K / TOP DRIVE RPM 30-40 / PUMP 105 SPM = 473 GPM / PUMP PRESSURE ON/OFF BOTTOM 2825/2600 PSI / MUD MOTOR RPM 104 / PU/SO/ROT WT 270/140/184 / TORQUE ON/OFF BOTTOM 16K/14K / SLIDE 26' IN 1.75 HRS = 14.7% OF FOOTAGE DRILLED & 31.8% OF HOURS DRILLED / 44 VIS - 11.4 PPG - 3% LCM / RAISED MUD WEIGHT TO 11.4 PPG TO CONTROL GAS & STABILIZE HOLE FOR BIT TRIP / LOST APPROXIMATELY 175 BBLS TO HOLE LAST 24 HOURS
8/25/2009	0:00 - 0:3	0 0.50	DRLPRO	02	D	P		DRILL (ROTATE) F/9304' - T/9311' = 7' @ 14 FPH / WOB 19K-22K / TOP DRIVE RPM 35-45 / PUMP 105 SPM = 473 GPM / PUMP PRESSURE ON/OFF BOTTOM 2825/2600 PSI / MUD MOTOR RPM 104 / PU/SO/ROT WT 270/140/184 / TORQUE ON/OFF BOTTOM 16K/14K / 100% OF FOOTAGE ROTATED / 44 VIS - 11.4 PPG / RAISE MUD WEIGHT TO CONTROL GAS & STABILIZE HOLE FOR BIT TRIP
	0:30 - 5:3	0 5.00	DRLPRO	06	Α	Р		P.O.O.H. @ 9311' W/ BIT #1 (PULL 4 STANDS - PUMP SLUG) / PULL ROTATING RUBBER @ B.H.A.
	5:30 - 6:3	0 1.00	DRLPRO	06	Α	Р		LAY DOWN M.W.D. TOOLS / BREAK BIT / LAY DOWN MOTOR / WORK BLIND & PIPE RAMS
	6:30 - 7:3		DRLPRO	06	Α	Р		MAKE UP MOTOR & BIT / INSTALL M.W.D. TOOLS & OREIANTATE MOTOR / SHALLOW TEST M.W.D. TOOLS
	7:30 - 11:	30 4.00	DRLPRO	06	Α	Р		T.I.H. W/ BIT #2 / INSTALL ROTATING RUBBER / BREAK CIRCULATION AT SELECTED INTERVALS /
	11:30 - 12:0	0.50	DRLPRO	03	D	P		PRECAUTIONARY REAM F/9142' - T/9311' / CUT BIT PATTERN & SOFT START BIT / LOST APPROXIMATELY 44 BBLS MUD ON TRIP

11/23/2009 1:25:33PM

Operation Summary Report

 Well: NBU 922-18C4CS (BLUE)
 Spud Conductor: 5/29/2009
 Spud Date: 6/17/2009

 Project: UTAH-UINTAH
 Site: NBU 922-18E PAD
 Rig Name No: ELENBURG 12/12, H&P 298/298

 Event: DRILLING
 Start Date: 6/16/2009
 End Date: 8/28/2009

Level)	RKB @4,920.00ft (g			1,903.00/W/0/404.00/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	12:00 - 15:30	3.50	DRLPRO	02	D	P	VV	DRILL (ROTATE/SLIDE) F/ 9311' - T/ 9426' = 115' @ 32.8 FPH / WOB 19K-22K / TOP DRIVE RPM 35-45 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2870/2700 PSI / MUD MOTOR RPM 72 / PU/SO/ROT WT 255/145/184 / TORQUE ON/OFF BOTTOM 16K/15K / SLIDE 20' IN 1.5 HOURS = 17.3% OF FOOTAGE & 42.8% OF TIME DRILLED / 43 VIS - 11.5 PPG - 4% LCM / HOLE SEEPING - RAISING L.C.M. TO 5% / LOST APPROXIMATELY 38 BBLS
	15:30 - 16:00	0.50	DRLPRO	07	Α	Р		SERVICE RIG & EQUIPMENT / VISUAL INSPECTION ON B.O.P.E.
	16:00 - 0:00	8.00	DRLPRO	02	D	P		DRILL (ROTATE) F/ 9426' – T/ 9685' = 259' @ 32.3 FPH / WOB 19K-22K / TOP DRIVE RPM 30-40 / PUMP 95 SPM = 428 GPM / PUMP PRESSURE ON/OFF BOTTOM 2700/2550 PSI / MUD MOTOR RPM 68 / PU/SO/ROT WT 280/140/192 / TORQUE ON/OFF BOTTOM 16K/15K / 45 VIS - 11.6 PPG - 5% LCM / LOST APPROXIMATELY 15 BBLS / TOTAL LOSSES = 97 BBLS
8/26/2009	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL (ROTATE) F/ 9685' - T/ 9816' = 131' @ 21.8 FPH / WOB 18K-21K / TOP DRIVE RPM 30-40 / PUMP 90 SPM = 405 GPM / PUMP PRESSURE ON/OFF BOTTOM 2375/2200 PSI / MUD MOTOR RPM 65 / PU/SO/ROT WT 290/148/192 / TORQUE ON/OFF BOTTOM 16K/14K / 100% OF FOOTAGE ROTATED / 44 VIS - 11.5 PPG - 5% LCM
	6:00 - 12:30	6.50	DRLPRO	02	D	P		DRILL (ROTATE) F/ 9816' – T/ 9992' = 176' @ 27.1 FPH / WOB 18K-22K / TOP DRIVE RPM 30-45 / PUMP 88 SPM = 396 GPM / PUMP PRESSURE ON/OFF BOTTOM 2150/1975 PSI / MUD MOTOR RPM 63 / PU/SO/ROT WT 293/159/196 / TORQUE ON/OFF BOTTOM 14K/13K / 100% OF FOOTAGE ROTATED / 44 VIS – 11.7 PPG – 5% LCM
	12:30 - 21:30	9.00	DRLPRO	02	D	P		DRILL (ROTATE) F/ 9992' - T/ 10180' (T.D.) = 188' @ 20.8 FPH / WOB 18K-23K / TOP DRIVE RPM 30-45 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2450/2300 PSI / MUD MOTOR RPM 72 / PU/SO/ROT WT 295/160/200 / TORQUE ON/OFF BOTTOM 16K/15K / 100% OF FOOTAGE ROTATED / 44 VIS - 11.8 PPG - 5% LCM / TOTAL LOSSES 24 HOURS = 45 BBLS
	12:30 - 12:30	0.00	DRLPRO	07	Α	P		SERVICE RIG & EQUIPMENT / WORK PIPE RAMS / VISUAL INSPECTION ON B.O.P.E.
	21:30 - 22:30	1.00	DRLPRO	05	С	Р		CIRCULATE & CONDITION HOLE FOR SHORT TRIP / ROTATE & RECIPROCATE PIPE 90'
	22:30 - 0:00	1.50	DRLPRO	06	E	Р		SHORT TRIP TO 2800' (ROTATE & PUMP OUT F/ 10180' - T/ 9520' - STRAIGHT PULL F/ 9520' - T/ 9145') / PUMP PILL / P.O.O.H.
8/27/2009	0:00 - 2:00	2.00	EVALPR	06	E	Р		SHORT TRIP (ROTATE & PUMP OUT F/ 10180' - T/ 9520' - STRAIGHT PULL F/ 9520' - T/ 9145') / PUMP PILL / P.O.O.H. TO 2800'
	2:00 - 5:00	3.00	EVALPR	06	E	P		SHORT TRIP / T.I.H WASH THRU BRIDGE @ 7255' / T.I.H. / BREAKING CIRCULATION AT SELECTED INTERVALS
	5:00 - 5:30	0.50	EVALPR	03	D	Р		PRECAUTIONARY REAM F/ 9992' - T/ 10180' W/ 4' FILL ON BOTTOM
	5:30 - 7:30	2.00	EVALPR	05	С	Р		CIRCULATE & CONDITION HOLE FOR LOGS / SWEEP HOLE W/ HIGH VIS SWEEPS / LOST APPROX. 3 BBLS MUD TO HOLE / SPOT 50 VIS MUD IN HOLE

11/23/2009 1:25:33PM

6

US ROCKIES REGION

Operation Summary Report

 Well: NBU 922-18C4CS (BLUE)
 Spud Conductor: 5/29/2009
 Spud Date: 6/17/2009

 Project: UTAH-UINTAH
 Site: NBU 922-18E PAD
 Rig Name No: ELENBURG 12/12, H&P 298/298

 Event: DRILLING
 Start Date: 6/16/2009
 End Date: 8/28/2009

 Active Datum: RKB @4,920.00ft (above Mean Sea Level)
 UWI: 0/9/S/22/E/18/0/SWNW/6/PM/N/1,903.00/W/0/404.00/0/0

 Date
 Time
 Duration
 Phase
 Code
 Sub
 P/U
 MD From
 Operation

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:30 - 13:00	5.50	EVALPR	06	В	Р		P.O.O.H. FOR LOGS / PUMP/ROTAT OUT F/ 10180' - T/ 9041 / PUMP PILL / P.O.O.H. / LAY DOWN M.W.D. TOOLS / BREAK BIT & STAND BACK MOTOR + RELATED TOOLS
	13:00 - 15:30	2.50	EVALPR	11	D	Р		SAFETY MEETING / M.I.R.U. HALLIBURTON LOGGING EQUIPMENT / R.I.H LOGS BRIDGED @ 8114' - UNABLE TO WORK THRU / ATTEMPT TO LOG UP - TOOLS FAILED / P.O.O.H SWAP OUT TOOLS - REMOVE BOW SPRING & FLEX JOINT / R.I.H.
	15:30 - 16:30	1.00	EVALPR	11	D	Z		ATTEMPT TO LOG UP - TOOLS FAILED / P.O.O.H SWAP OUT TOOLS - REMOVE BOW SPRING & FLEX JOINT / HALLIBURTON REDUCED TICKET BY \$1041.00 FOR 1 HOUR OF RIG TIME
	16:30 - 20:30	4.00	EVALPR	11	D	Р		R.I.H HIT BRIDGE @ 8110' / COULD NOT WORK THROUGH / LOG UP W/ TRIPLE COMBO TOOLS F/8110' - T / SURFACE (2832') / R.D.M.O. HALLIBURTON EQUIPMENT
	20:30 - 21:00	0.50	CSG	14	В	Р		PULL WEAR BUSHING / VISUAL INSPECTION ON B.O.P.E. / WORK PIPE & BLIND RAMS
	21:00 - 22:00	1.00	CSG	12	Α	Р		SAFETY MEETING / M.I.R.U. WEATHERFORD EQUIPMENT / INSPECT EQUIPMENT FOR PROPER RIG UP
	22:00 - 0:00	2.00	CSG	12	С	Р		RUN 8 JTS P-110 #11.6 LT&C 4.5 CASING + 1 XO JT I-80 11.6# FROM LTC TO BTC,234 JTS I-80 #11.6 BTC 4.5 CASING + RELATED TOOLS / BREAKING CIRCULATION @ SELECTED INTERVALS
8/28/2009	0:00 - 6:00	6.00	CSG	12	С	Р		FINISH RUN 8 JTS P-110 #11.6 LT&C 4.5 CASING + 1 XO JT I-80 11.6# FROM LTC TO BTC,234 JTS I-80 #11.6 BTC 4.5 CASING + RELATED TOOLS / BREAKING CIRCULATION @ SELECTED INTERVALS / PUSHED THROUGH BRIDGE @ 8110' W/ 40K / INSTALL SOLID MANDREL + ROTATING RUBBER / BREAK CIRCULATION / HOLD CASING @ 10169' WHILE CIRCULATING & CEMENTING
	6:00 - 7:30	1.50	CSG	05	D	Р		CIRCULATE & CONDITION HOLE FOR CEMENT / R.D.M.O. CASING EQUIPMENT / SPOT B.J. CEMENTING EQUIPMENT / LOST FULL RETURNS 30 MINUTES INTO CIRCULATION / ADDED LCM TO MUD ON LOCATION & PUMPED APPROXIMATELY 420 BBLS WITH NO RETURNS / 48 VIS - 11.8 - 10% LCM

11/23/2009 1:25:33PM

NIPPLE DOWN B.O.P.E. / CLEAN PITS + RELATED

EQUIPMENT / RELEASE RIG @ 13:00

US ROCKIES REGION

Operation Summary Report

Spud Conductor: 5/29/2009 Spud Date: 6/17/2009 Well: NBU 922-18C4CS (BLUE) Site: NBU 922-18E PAD Rig Name No: ELENBURG 12/12, H&P 298/298 Project: UTAH-UINTAH Event: DRILLING Start Date: 6/16/2009 End Date: 8/28/2009

12:30 - 13:00

0.50

CSG

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event: DRILL	ING		Start Da	te: 6/16/	2009			End Date: 8/28/2009
Active Datum .evel)	: RKB @4,920.00ft (above Mean	Sea	UWI: 0	/9/S/22/E	E/18/0/SW	/NW/6/PM/N/	1,903.00/W/0/404.00/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:30 - 11:30	4.00	CSG	12		P		SAFETY MEETING (REVIEW J.S.A.) TEST PUMPS & LINES TO 4300 PSI / PUMP 40 BBLS H2O AT A RATE OF 8.6 BBP / PRESSURING UP TO 2000 PSI / PUMPED 20 MORE BBLS H2O W/ NO BREAK / STARTED + 625 SX LEAD CEMENT @ 11.8 ppg (PREM LITE II + .05Ilbs/sx STATIC FREE + .25 pps (PREM LITE II + .05Ilbs/sx STATIC FREE + .25 pps CELLOFLAKE + 5 pps KOL SEAL + 8% bwoc BENTONITE + .2% bwoc SODIUM METASILICATE + 203 BBLS H2O / (13.67 gal/sx, 2.42 yield) WITH NO CIRCULATION + 1278 SX TAIL @ 14.3 ppg (CLS G 50/50 POZ + 10% SALT + .05Ilbs/sx STATIC FREE + .2% R3 + .002 GPS FP-6L + 2% BENTONITE + 180BBLS H2O / (5.90 gal/sx, 1.31 yield) FULL RETURNS @ 60 BBLS TAIL PUMPED / DROP PLUG & DISPLACE W/ 158 BBLS H2O + ADDITIVES / LOST RETURNS 45 BBLS INTO DISPLACEMENT W/ PARTIAL RETURNS THROUGHOUT DISPLACEMENT / LIFT PRESSURE @ 2630 PSI (CALC TOP OF TAIL @ 3767') / BUMP PLUG W/ 3275 PSI - HOLD 5 MINUTES W/ NO LOSS / PLUG DOWN @ 11:00 HOURS W/ NO CEMENT TO SURFACE / FLOATS HELD W/ 2.0 BBLS BACK TO INVENTORY / R.D.M.O. CEMENT EQUIPMENT
	11:30 - 12:30	1.00	SUSPEN	14	Α	Р		LAND CASING W/ SHOE @ 10171' - TOP OF FLOAT COLLAR @ 10129' & TOP OF MARKER JOINT @ MARKER 5301' / LAY DOWN LANDING JOINT & ROTATING RUBBER

7 11/23/2009 1:25:33PM

US ROCKIES REGION Operation Summary Report Well: NBU 922-18C4CS (BLUE) Spud Conductor: 5/29/2009 Spud Date: 6/17/2009 Project: UTAH-UINTAH Site: NBU 922-18E PAD Rig Name No: **Event: COMPLETION** End Date: 11/17/2009 Start Date: 11/9/2009 Active Datum: RKB @4,920.00ft (above Mean Sea UWI: 0/9/S/22/E/18/0/SWNW/6/PM/N/1,903.00/W/0/404.00/0/0 Level) Time Duration Phase Sub P/U MD From Date Code Operation Start-End (hr) Code (ft) 11/9/2009 7:00 - 18:00 11.00 COMP 36 В Р STG 1)PU 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH PER F/ 9872'-74', 4 SPF, 8 HOLES. 9742'-46', 4 SPF, 16 HOLES. 9682'-88', 3 SPF, 18 HOLES. POOH. WHP 480 PSI, BRK 3491 PSI @ 6.4 BPM. ISIP 2906 PSI, FG .73. PUMP 100 BBLS @ 49.6 BPM @ 5465 PSI = 100% HOLES OPEN. MP 6434 PSI, MR 49.9 BPM, AP 4936 PSI, AR 44.1 BPM, ISIP 2900 PSI, FG .73, NPI 6 PSI. PMP 1655 BBLS SW & 57,737 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 62,737 LBS, STG 2)PU 4 1/2 8K HAL CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 9654' P/U PERF F/ 9622'-24', 4 SPF, 8 HOLES. 9554'-58', 4 SPF, 16 HOLES. 9480'-86', 3 SPF, 18 HOLES.

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7:00 - 7:15

0.25

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11/10/2009

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HSM. SIM OPS.

11/23/2009 1:26:32PM 1

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US ROCKIES REGION

Operation Summary Report

Well: NBU 922-18C4CS (BLUE)	Spud	Conductor: 5/29/2009	Spud Date: 6/17/2009	
Project: UTAH-UINTAH	Site:	NBU 922-18E PAD	Rig Name No:	
Event: COMPLETION	Start	Date: 11/9/2009	End Date: 11/17/2009	
Active Datum: RKB @4.920.00ft (above	Mean Sea	UWI: 0/9/S/22/E/18/0	SWNW/6/PM/N/1.903.00/W/0/404.00/0/0	

Active Datum: RKB @4,920.00ft (above Mean Sea

Level)

Date	Time	Duration	Phase	Code		P/U	MD From	Operation
	Start-End	(hr)		1	Code		(ft)	
	7:15 - 17:00	9.75	COMP	36	В	Р		STG 2)WHP 2416 PSI, BRK 3437 PSI @ 6.4 BPM.
								ISIP 2890 PSI, FG .73.

PUMP 100 BBLS @ 51.5 BPM @ 5443 PSI = 100% HOLES OPEN. MP 6465 PSI, MR 51.6 BPM, AP 4990 PSI, AR 43.9 BPM, ISIP 3056 PSI, FG .75, NPI 166 PSI. PMP 809 BBLS SW & 24,719 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 29,719 LBS,

STG 3)PU 4 1/2 8K HAL CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 9436' P/U PERF F/ 9402'-06', 3 SPF, 12 HOLES. 9368'-70', 4 SPF, 8 HOLES. 9196'-04', 3 SPF, 24 HOLES. POOH. WHP 2006 PSI, BRK 2429 PSI @ 6.4 BPM. ISIP 2333 PSI, FG .68. PUMP 100 BBLS @ 50.5 BPM @ 4331 PSI = 100% HOLES OPEN. MP 5534 PSI, MR 50.8 BPM, AP 4236 PSI, AR 48.2 BPM, ISIP 2420 PSI, FG .68, NPI 87 PSI. PMP 2767 BBLS SW & 110,661 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 115,661 LBS, SWI.

GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 9094' P/U PERF F/ 9060'-64', 4 SPF, 16 HOLES. 9018'-24', 4 SPF, 24 HOLES. POOH WHP 2100 PSI, BRK 3745 PSI @ 6.4 BPM. ISIP 2615 PSI, FG.72. PUMP 100 BBLS @ 50.5 BPM @ 5000 PSI = 100% HOLES OPEN. MP 5681 PSI, MR 50.7 BPM, AP 4423 PSI, AR 43.7 BPM, ISIP 2645 PSI, FG .72, NPI 30 PSI. PMP 814 BBLS SW & 24,733 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 29,733 LBS,

STG 4)PU 4 1/2 8K HAL CBP & 3 3/8 EXP GUN, 23

STG 5)PU 4 1/2 8K HAL CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8688' P/U PERF F/ 8652'-58', 4 SPF, 24 HOLES. 8594'-98', 4 SPF, 16 HOLES. POOH. WHP 875 PSI, BRK 3734 PSI @ 6.4 BPM. ISIP 2060 PSI, FG .67. PUMP 100 BBLS @ 50.5 BPM @ 4700 PSI = 90% HOLES OPEN. MP 5465 PSI, MR 50.8 BPM, AP 4203 PSI, AR 46.5 BPM, ISIP 2674 PSI, FG .74, NPI 614 PSI. PMP 1346 BBLS SW & 49,898 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 54,898 LBS,

11/23/2009 1:26:32PM

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US ROCKIES REGION

Vell: NBU 922-	-18C4CS (BLUE)		Spud C	onductor	: 5/29/20	009	Spud Date: 6	/17/2009			
Project: UTAH-	UINTAH		Site: NE	3U 922-1	BE PAD			Rig Name No:			
vent: COMPL	ETION		Start Da	ate: 11/9/	2009			End Date: 11/17/2009			
octive Datum: f evel)	RKB @4,920.00ft (above Mean	Sea	UWI: 0	/9/S/22/E	E/18/0/SV	8/0/SWNW/6/PM/N/1,903.00/W/0/404.00/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation			
11/11/2009	7:00 - 17:00	10.00	СОМР	36	В	Р		STG 6)PU 4 1/2 8K HAL CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 8358' P/U PERF F/8326'-28', 4 SPF, 8 HOLES. 8288'-92', 3 SPF, 12 HOLES. 8234'-40', 3 SPF, 18 HOLES. POOH. SWI, SDFN. STG 6)WHP 951 PSI, BRK 3224 PSI @ 6.4 BPM. ISIP 1817 PSI, FG .65. PUMP 100 BBLS @ 00.0 BPM @ 0000 PSI = 00% HOLES OPEN. MP 5431 PSI, MR 51.6 BPM, AP 4138 PSI, AR 46.4 BPM, ISIP 2505 PSI, FG .73, NPI 688 PSI. PMP 845 BBLS SW & 27,293 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 32,293 LBS,			
								STG 7)PU 4 1/2 8K HAL CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 8112' P/U PERF F/8076'-82', 3 SPF, 18 HOLES. 8060'-62', 3 SPF, 6 HOLES. 8008'-14', 3 SPF, 18 HOLES. POOH. WHP 1120 PSI, BRK 2619 PSI @ 6.4 BPM. ISIP 1307 PSI, FG .59. PUMP 100 BBLS @ 50.5 BPM @ 4300 PSI = 67% HOLES OPEN. MP 4824 PSI, MR 51.2 BPM, AP 4119 PSI, AR 47.9 BPM, ISIP 2820 PSI, FG .78, NPI 1513 PSI. PMP 1643 BBLS SW & 63,875 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 68,875 LBS,			
11/16/2009	6:45 - 7:00 7:00 - 15:30	0.25 8.50	COMP COMP	48 31	1	P P		PU 4 1/2 8K HAL CBP. RIH SET KILL PLUG @ 7958'. POOH.N SWI. JSA- RDSU/ RUSU. PU TBG. RDSU FROM 18F1CS. MOVE OVER AND RUSU			
	6:45 - 7:00							ON 18C4CS. ND FRAC VALVES. NU BOP. RU FLOOR AND TBG EQUIP. SPOT IN TBG. MU 3-7/8 HURRICANE MILL, POBS, 1.87" XN NIPPLE AND RIH AS MEAS AND PU 251 JTS 2-3/8" L-80 TBG. TAG SAND AT 7933'. RU DRLG EQUIP W/ #251. FLUSH LINES. DRAIN EQUIP. SDFN W/ EOT AT 7905'.			

11/23/2009 1:26:32PM

7 AM FLBK REPORT: CP 2450#, TP 1525#, 20/64"

7 AM FLBK REPORT: CP 2600#, TP 1725#, 20/64"

7 AM FLBK REPORT: CP 2550#, TP 1675#, 20/64"

CK, 30 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 6783 BBLS LEFT TO RECOVER: 3096

CK, 20 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 7351 BBLS LEFT TO RECOVER: 2528

CK, 16 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 7787 BBLS LEFT TO RECOVER: 2092

US ROCKIES REGION **Operation Summary Report** Spud Conductor: 5/29/2009 Spud Date: 6/17/2009 Well: NBU 922-18C4CS (BLUE) Project: UTAH-UINTAH Site: NBU 922-18E PAD Rig Name No: End Date: 11/17/2009 **Event: COMPLETION** Start Date: 11/9/2009 UWI: 0/9/S/22/E/18/0/SWNW/6/PM/N/1,903.00/W/0/404.00/0/0 Active Datum: RKB @4,920.00ft (above Mean Sea Level) MD From Duration Phase Code Sub P/U Operation Date Time Code Start-End (ft) (hr) P OPEN WELL AND WARM EQUIP. (1-FROZEN 7:00 - 18:00 11.00 COMP C 44 LINE) FILL HOLE AND P-TEST TO 3000 PSI. GOOD. EST CIRC AND D/O PLUGS. #1- C/O 14' SAND TO CBP AT 7958'. D/O PLUG IN 8 MIN. 100# INC. RIH. #2- C/O 5' SAND TO CBP AT 8112'. D/O PLUG IN 6 MIN. 150# INC. RIH. #3- C/O 37' SAND TO CBP AT 8358', D/O PLUG IN 30 MIN. 50# INC. RIH. #4- C/O 38' SAND TO CBP AT 8688'. D/O PLUG IN 38 MIN. 50# INC. RIH. #5- C/O 33' SAND TO CBP AT 9094'. D/O PLUG IN 15 MIN. 50# INC. RIH. #6- C/O 30' SAND TO CBP AT 9436'. D/O PLUG IN 45 MIN. 250# INC. PLUG PUSHED UP 20K. LET PLUG EQUALIZE TO GET MOVING DOWN. RIH. SUSPECTING PROBLEMS WITH PWR SWIVEL. SWAP OUT PWR SWIVELS. NOT PWR SWIVEL. HOLE IS VERY DEVIATED. HAVE TORQUE TURNED UP TO 2100 FT LBS AND CAN ONLY ROTATE WHEN TBG IS MOVING UP OR DOWN. RIH. #7- C/O 32' SAND TO CBP AT 9654'. D/O PLUG IN 60 MIN. 300# INC. PLUG PUSHED UP 30K. LET PLUG EQUALIZE. ABLE TO GET JT DOWN. DRAIN EQUIP AND LINES. HOOK UP WELL TO FLOW ON 48/64 CHOKE. SDFN 7 AM FLBK REPORT: CP 2500#, TP 1475#, 20/64" 11/19/2009 7:00 -33 CK, 42 BWPH, LIGHT SAND, LIGHT GAS TTL BBLS RECOVERED: 5075 **BBLS LEFT TO RECOVER: 4804** 11/20/2009 7:00 33 7 AM FLBK REPORT: CP 2525#, TP 1500#, 20/64" CK, 36 BWPH, LIGHT SAND, MEDIUM GAS TTL BBLS RECOVERED: 6005 **BBLS LEFT TO RECOVER: 3874** 10:00 -PROD 50 WELL TURNED TO SALE @ 1000 HR ON 11/20/09 - FTP 1550#, CP 2575#, 1.3 MCFD, 36 BWPD, 20/64

11/23/2009 1:26:32PM

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7:00

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7:00 -

11/21/2009

11/22/2009

11/23/2009

Form 3160-4 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010

WELL COMPLE	TION OR R	ECOMPLETION	REPORT	ANDI	OG
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	WELL	COMP	LETION	OR RI	ECO	MPLET	ION R	EPO	RT	AND	LOG	i			ease Seria JTU0359	l No.		
la. Type	_	Oil Wel	_			. –	Other							6. If	Indian, A	llottee o	or Tribe Name	-
b. Type	of Completio	n 🔀 l Oth	New Well er	□ wo	ork Ov	er 🔲	Deepen		Plug	g Back	0 1	Diff. R	lesvr.	7. U	nit or CA	Agreen	nent Name and No.	_
2. Name o	of Operator -MCGEE O	IL&GAS (ONSHORE	ELMail:	andre	Contact:	ANDY L	YTLE o.com							ease Name			
	s P.O. BOX	X 173779				,	3a		e No -929	o. (includ 9-6100	le area	code)			PI Well N		43-047-39845	_
4. Locatio	n of Well (Re							-	ents))*				10.]	Field and I	Pool, or	Exploratory	
At surf			NL 404FWL					N Lon						11.	Sec., T., R	., M., oı	r Block and Survey 19S R22E Mer	_
At top At tota	prod interval	1081			73FNL	. 1848FV	VL							12. (County or		13. State	_
14. Date S 05/29/	pudded		15. E	Pate T.D 8/26/20		hed		$ \Pi \Pi$) & .	Complet A 🔀 0/2009	ted Read	y to P	rod.		JINTAH Elevations 4	(DF, K 894 GL	B, RT, GL)*	
18. Total	Depth:	MD TVD	1018 9924		19. 1	Plug Bacl	T.D.:	MD TV)	10	0130 1 874	,	20. De	th Bri	dge Plug S	Set:	MD TVD	
21. Type I	Electric & Ot RIPLE COM	her Mecha	nical Logs F	tun (Sub	mit co	py of eac	h)				22.	Was v	vell core		⊠ No	☐ Ye	s (Submit analysis)	
	and Liner Rec					74) C							tional Su		No No		s (Submit analysis) s (Submit analysis)	
Hole Size	Size/C		Wt. (#/ft.)	s set in v		Bottom	Stage	Cemer	nter	No. o	of Sks.	. &	Slurry	Vol.		T +		
20.000		0 STEEL	36.7	(M.	D)	(MD)	40	Depth	-	Type	of Cen	nent 28	(BB	L)	Cement	10p*	Amount Pulled	
12.250		625 J-55	40.0	+		28						670						
7.87		.500 I-80	11.6			101					· · · · · · ·	1905			<u> </u>			_
	1			 					-		·····							_
24. Tubing	Record .												L		·		1	_
Size	Depth Set (N	MD) P	acker Depth	(MD)	Siz	ie De	pth Set (MD)	Pa	acker De	pth (N	ID)	Size	De	pth Set (M	(D)	Packer Depth (MD)	
25. Produc	ing Intervals				L	12	26. Perfor	ation R	Recor	rd				l.				_
F	ormation		Тор	Ī	Bott	tom]	Perforat	ted I	nterval			Size	T N	No. Holes	Т	Perf. Status	_
A)	MESAVE	ERDE		8008		9874			100 1	8008 T	O 98	74	0.3			OPE		_
B)																1		_
C)																		_
D)	· ·																	
	racture, Treat Depth Interv		nent Squeez	e, Etc.							1.00	C) 4			¥	RF	CEIVED	_
			374 PMP 9,	379 BBL	S SLIC	K H20 &	393,916 L	BS 30/		nount and	d Type	of M	aterial	·		JIL	CLIVEL	_
																DI	EC 2 1 2009	_
								<u>,</u>							a	IV. OF	OIL, GAS & MINI	N
28. Product	ion - Interval	Α																
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL		as ICF	Water BBL		il Gra orr. A			Gas Gravity		Producti	on Method			_
11/20/2009	11/27/2009	24	$-\triangleright$			1792.0	75.0		011.71		I	Olavity			FLO	WS FRO	OM WELL	
Choke Size	Tbg. Press. Flwg. 1290	Csg. Press.	24 Hr. Rate	Oil BBL		as ICF	Water BBL		as:Oil atio			Well Sta	itus				* ****	_
20/64	SI	2068.0				1792	75	1				P	ЭW					
28a. Produc	tion - Interva	ıl B										·,						_
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	G M	as ICF	Water BBL		il Gra			Gas Gravity		Producti	on Method			
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Ga M	as ICF	Water BBL		as:Oil atio			Well Sta	itus					
		<u> </u>		i			<u> </u>				1							

												
28b. Prod	luction - Inter	val C										
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravi	ity	Production Met	hod	
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well	Status	. !		
28c. Prod	luction - Inter	val D			<u></u>	. <u></u> l						
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravi	ity	Production Met	hod	
Choke Size	Tbg. Press. Flwg. SI	Csg. Press,	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well	Status			·
29. Dispo	osition of Gase	(Sold, use	d for fuel, ver	ited, etc.)				.	·			
30. Sumn	nary of Porou	s Zones (I	nclude Aquil	ers):					31. For	rmation (Log)	Markers	····
tests,	all important including dep ecoveries.	zones of th interva	porosity and l tested, cush	contents ther ion used, tim	eof: Core e tool ope	d intervals and en, flowing an	d all drill-stem d shut-in pressur	res				
	Formation		Тор	Bottom		Descript	ions, Contents, et	tc.		Nam	ne	Top Meas. Depth
GREEN F MAHOGA WASATC MESAVE	NY H		1834 2473 5339 8039	7988 10052	2							
32. Addit ATTA REPO		(include FHIS CO	plugging pro MPLETION	cedure): REPORT IS	THE CI	HRONOLOG	SICAL WELL HIS	STORY AN	ND END	OF WELL	60 † \$7:-	EIVED 2 1 2009
												•
											יאות OF UIL,	GAS & MINING
1. Ele	e enclosed atta ectrical/Mechandry Notice for	anical Lo	•	. ,		2. Geologi6. Core Ai	•		DST Re	port	4. Directi	onal Survey
34. I here	by certify that	t the foreg	_			_	orrect as determin			•	attached instruct	tions):
			Elec	tronic Subn For KERR	ission #7 -MCGEI	78861 Verifie E OIL&GAS	d by the BLM V ONSHORE, LP	Vell Inform , sent to th	ation Systemates	stem.		
Name	(please print)	ANDY I	YTLE			······	Title J	REGULAT	ORY AN	ALYST		-,
Signa	ture	Electre	nic Submiss	sion)			Date	12/15/2009)			
***********							<u> </u>					
Title 18 U	J.S.C. Section ited States and	1001 and y false, fic	l Title 43 U.S ctitious or fra	.C. Section 1 dulent statem	212, mak ents or re	te it a crime for presentations	or any person kno as to any matter	wingly and within its it	willfully irisdiction	to make to ar	ny department or	agency



ANADARKO PETROLEUM CORP.

UINTAH COUNTY, UTAH (nad 27) NBU 922-18E PAD NBU 922-18C4CS

NBU 922-18C4CS

Survey: FINAL

Standard Survey Report

27 August, 2009

RECEIVED

DEC 2 1 2009

DIV. OF OIL, GAS & MINING



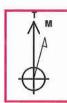


NBU 922-18C4CS UINTAH COUNTY, UTAH (nad 27) SECTION 18 T9S R22E 1903'FNL 404'FWL LAT: 40° 2' 17.008 N LONG: 109° 29' 18.965 W

RIG: HP 298



Slot



Azimuths to True North Magnetic North: 11.34

Magnetic Field Strength: 52550.1snT Dip Angle; 65.98* Date: 8/12/2009 Model: BGGM2008

FORMATION TOP DETAILS

TVDPath MDPath Formation 4823.00 5040.78 Top Wasatch: Top Mesaverde: MVU21: 7474.00 7730.79 8416.00 8672.79 8935.00 9191.79 MVL1:

WELL DETAILS: NBU 922-18C4CS

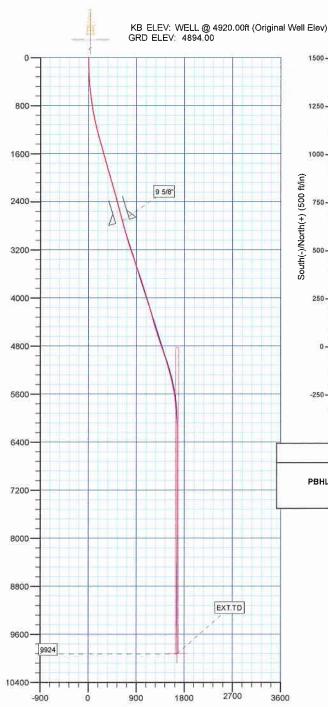
Ground Level: 4894.00 +N/-S +E/-W Northing 14543492.49 Easting 2063469.89 Latittude

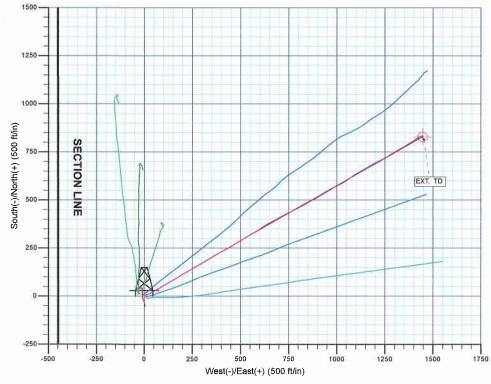
Longitude 40° 2' 17.008 N 109° 29' 18.965 W 0.00 0_00

SECTION DETAILS													
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target			
27	75.00	16.82	60.30	2688.56	314.23	542,42	0,00	0.00	626.86	_			
29	30.00	16,82	60.30	2836.93	336.45	581.38	0.00	0.00	671.71				
30	52,33	19.88	60,27	2953.03	355,54	614.82	2,50	-0.21	710.22				
53	362,88	19.88	60,27	5125.91	745.18	1297,03	0.00	0.00	1495.85				
63	356.79	0.00	0.00	6100.00	829.84	1445,25	2.00	180.00	1666.55				
101	76.79	0.00	0.00	9920.00	829.84	1445,25	0.00	0.00	1666.55	PBHL NBU 922-18C4CS			

CASING DETAILS

TVD MD Name Size 9 5/8"





WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

+N/-S +E/-W Northing Easting Latitude Longitude Shape 1445,2514544346.74 2064900.85 40° 2' 25.210 N109° 29' 0.380 W Circle (Radius: 25.00) Name TVD 9920.00 829.84

RECEIVED

DEC 2 1 2009

DIV. OF OIL, GAS & MINING

Survey: Survey #1 (NBU 922-18C4CS/NBU 922-18C4CS)

Created By: Robert H. Scott



Weatherford International Ltd.

Survey Report



Company:

ANADARKO PETROLEUM CORP.

Project:

Site: Well:

NBU 922-18E PAD NBU 922-18C4CS

Wellbore: Design:

NBU 922-18C4CS NBU 922-18C4CS

UINTAH COUNTY, UTAH (nad 27)

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Database:

Well NBU 922-18C4CS

WELL @ 4920.00ft (Original Well Elev) WELL @ 4920.00ft (Original Well Elev)

True

Minimum Curvature

Mean Sea Level

EDM 2003.21 Single User Db

Project

UINTAH COUNTY, UTAH (nad 27),

Map System:

Map Zone:

Universal Transverse Mercator (US Survey Fee System Datum:

0.00 ft

Geo Datum:

NAD 1927 - Western US

Zone 12N (114 W to 108 W)

Site

NBU 922-18E PAD, SECTION 18 T9S R22E

Site Position:

Northing:

14,543,514.70ft

Latitude:

40° 2' 17.233 N

From: **Position Uncertainty:** Lat/Long

Easting: Slot Radius: 2.063.436.85ft

Longitude: **Grid Convergence:** 109° 29' 19.385 W

0.97°

Well

NBU 922-18C4CS

Well Position

+N/-S

0.00 ft +E/-W

Northing: Easting:

14.543.492.49 ft

Latitude:

40° 2' 17.008 N

Position Uncertainty

0.00 ft

2,063,469.89 ft

Longitude: **Ground Level:** 109° 29' 18.965 W

0.00 ft

Wellhead Elevation:

ft

4,894.00 ft

Wellbore

NBU 922-18C4CS

Magnetics

Model Name

Sample Date

Declination (°)

Dip Angle (°)

Field Strength (nT)

BGGM2008

8/12/2009

11.34

65.98

52,550

Design

NBU 922-18C4CS

Audit Notes:

Version:

1.0

Phase:

ACTUAL

Tie On Depth:

0.00

Vertical Section:

Depth From (TVD)

(ft) 0.00 +N/-S (ft) 0.00

+E/-W (ft) 0.00

Direction (°) 63.44

Survey Program

Date 8/27/2009

10,180.00 Survey #1 (NBU 922-18C4CS)

From

8/27/2009 11:49:29AM

То

(ft) (ft)

103.00

Survey (Wellbore)

Tool Name

MWD

Description

MWD - Standard

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
103.00	0.36	55.62	103.00	0.18	0.27	0.32	0.35	0.35	0.00
194.00	1.82	56.29	193.98	1.15	1.71	2.04	1.60	1.60	0.74
287.00	3.33	53.95	286.88	3.56	5.12	6.17	1.63	1.62	-2.52
382.00	5.03	66.53	381.63	6.84	11.17	13.05	2.02	1.79	13.24
477.00	5.88	68.26	476.20	10.30	19.51	22.06	0.91	0.89	1.82
573.00	7.25	65.99	571.57	14.59	29.61	33.01	1.45	1.43	-2.36
668.00	8.25	63.61	665.70	20.05	41.19	45.81	1.11	1.05	-2.51
763.00	9.50	59.74	759.56	27.03	54.07	60.45	1.46	1.32	-4.07
858.00	10.69	59.74	853.09	35.43	68.45	77.07	1.25	1.25	0.00
953.00	12.13	59.48	946.21	44.94	84.66	95.82	1.52	1.52	-0.27
1,048.00	13.56	59.61	1,038.83	55.64	102.87	# 1#6.89 A		1.51	0.14
1,145.00	15.19	59.36	1,132.79	67.87	123.61	18EC	ノロマを見し	1.68	-0.26



Weatherford International Ltd.

Survey Report



Company: ANADARKO PETROLEUM CORP. Project: UINTAH COUNTY, UTAH (nad 27)

Site: NBU 922-18E PAD Well: NBU 922-18C4CS Wellbore: NBU 922-18C4CS

NBU 922-18C4CS

Design:

Local Co-ordinate Reference: Well NBU 922-18C4CS

TVD Reference: WELL @ 4920.00ft (Original Well Elev) MD Reference: WELL @ 4920.00ft (Original Well Elev)

North Reference:

Survey Calculation Method: Minimum Curvature

Database: EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,240.00 1,335.00		60.24 59.86	1,224.22 1,315.16	80.83 94.55	145.90 169.71	166.65 194.07	1.21 1.06	1.18 1.05	0.93 -0.40
1,430.00 1,526.00		58.11 58.74	1,405.78 1,497.29	109.25 124.44	194.14 218.87	222.50 251.41	0.65 0.21	0.34 -0.07	-1.84 0.66
1,621.00		60.86	1,587.89	138.81	243.55	279.92	0.68	-0.13	2.23
1,716.00		59.11	1,678.57	152.98	268.07	308.19	0.58	-0.20	-1.84
1,811.00		58.86	1,769.30	167.49	292.22	336.27	0.08	0.00	-0.26
1,907.00		58.99	1,860.79	182.49	317.11	365.25	0.78	0.78	0.14
2,002.00 2,098.00		61.11 59.49	1,951.17 2,042.29	197.10 212.08	342.46 368.70	394.45 424.62	0.70 1.10	-0.13 0.97	2.23 -1.69
2,192.00		60.11	2,131.60	226.84	394.05	453.90	1.10	-1.33	0.66
2,288.00		60.11	2,223.01	241.45	419.47	483.16	0.46	0.46	0.00
2,383.00	17.69	60.49	2,313.44	255.87	444.75	512.23	0.35	-0.33	0.40
2,478.00		57.99	2,404.18	270.24	468.92	540.27	1.26	-0.99	-2.63
2,574.00		59.24	2,496.12	284.62	492.50	567.79	0.38	-0.06	1.30
2,670.00		58.86 60.30	2,588.05	298.85	516.23	595.38	0.17	0.12	-0.40
2,775.00		60.30	2,688.56	314.23	542.42	625.68	0.40	0.01	1.37
2,936.00		57.59	2,842.62	338.35	582.47	672.29	0.50	0.08	-1.68
3,031.00 3,125.00		55.84 58.34	2,933.27 3,022.56	353.96 369.92	606.23	700.52	1.12	0.98	-1.84
3,123.00		61.72	3,111.04	385.71	630.90 658.39	729.73 761.38	1.10 2.75	0.72 2.47	2.66 3.60
3,313.00	20.06	61.22	3,199.10	401.41	687.27	794.23	0.89	-0.87	-0.53
3,407.00	21.50	62.84	3,286.99	417.03	716.73	827.57	1.65	1.53	1.72
3,502.00		61.97	3,375.56	432.94	747.16	861.90	0.73	-0.65	-0.92
3,597.00		63.72	3,464.27	448.45	777.41	895.89	0.69	0.19	1.84
3,692.00	20.81	63.09	3,553.00	463.64	807.77	929.84	0.35	-0.26	-0.66
3,787.00	21.13	59.97	3,641.71	479.85	837.64	963.80	1.22	0.34	-3.28
3,881.00	19.93	60.67	3,729.74	496.18	866.28	996.72	1.30	-1.28	0.74
3,976.00	18.75	62.22	3,819.38	511.23	893.90	1,028.16	1.35	-1.24	1.63
4,071.00 4,165.00	18.88 20.13	58.34 57.97	3,909.31 3,997.91	526.41 542.97	920.49 947.15	1,058.73 1,089.98	1.32 1.34	0.14 1.33	-4.08 -0.39
4,260.00	19.81	59.59	4,087.20	559.79	974.90	1,122.32	0.67	-0.34	1.71
4,356.00	18.19	61.84	4,177.97	575.10	1,002.14	1,153.53	1.85	-1.69	2.34
4,450.00	16.69	63.34	4,267.64	588.08	1,027.14	1,181.70	1.67	-1.60	1.60
4,545.00	17.25	54.34	4,358.52	602.42	1,050.78	1,209.25	2.82	0.59	-9.47
4,640.00	18.13	55.97	4,449.03	618.90	1,074.47	1,237.82	1.06	0.93	1.72
4,735.00	20.38	57.47	4,538.71	636.07	1,100.67	1,268.93	2.42	2.37	1.58
4,830.00	19.38	60.34	4,628.05	652.76	1,128.32	1,301.12	1.47	-1.05	3.02
4,924.00 5,018.00	20.63 21.56	60.47 59.59	4,716.38 4,804.08	668.65 685.55	1,156.28	1,333.23	1.33	1.33	0.14
5,018.00	22.27	63.59	4,804.08 4,892.22	702.39	1,185.58 1,216.76	1,367.00 1,402.42	1.05 1.74	0.99 0.75	-0.94 4.21
5,207.00	21.25	61.84	4,979.52	718.36	1,247.73	1,437.26	1.29	-1.09	-1.86
5,301.00	17.94	56.09	5,068.07	734.48	1,274.78	1,468.66	4.07	-3.52	-6.12
5,396.00	17.25	59.72	5,158.63	749.74	1,299.08	1,497.23	1.36	-0.73	3.82
5,491.00	17.06	60.59	5,249.40	763.69	1,323.39	1,525.20	0.34	-0.20	0.92
5,586.00	15.69	61.22	5,340.55	776.72	1,346.79	1,551.96	1.45	-1.44	0.66
5,681.00	13.75	56.22	5,432.43	789.18	1,367.43	1,576.00	2.44	-2.04	-5.26
5,775.00	12.13	58.09	5,524.04	800.61	1,385.10	1,596.92	1.78	-1.72	1.99
5,870.00	9.81	55.47	5,617.30 5,711.31	810.48	1,400.24	1,614.87	2.50	-2.44	-2.76
5,965.00 6,058.00	7.50 5.50	56.97 60.34	5,711.21 5,803.61	818.45 823.96	1,412.11 1,421.07	1,629.05 1,639.53	2.44 2.19	-2.43 -2.15	1.58 3.62
6,153.00	5.25	63.22	5,898.19	828.17	1,421.07	1,648.43	0.39	-2.15 -0.26	3.03
6,248.00	4.31	56.22	5,992.86	832.11	1,435.76	1,656.31	1.16	-0.99	-7.37
6,343.00	2.25	58.09	6,087.70	835.09	1,435.76		EIVË		-7.37 1.97

DEC 2 1 2009



Weatherford International Ltd.

Survey Report



Company:

ANADARKO PETROLEUM CORP.

Project: Site: UINTAH COUNTY, UTAH (nad 27)

Well: Wellbore: NBU 922-18E PAD NBU 922-18C4CS NBU 922-18C4CS

Design:

NBU 922-18C4CS

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Database:

Well NBU 922-18C4CS

WELL @ 4920.00ft (Original Well Elev) WELL @ 4920.00ft (Original Well Elev)

True

Minimum Curvature

EDM 2003.21 Single User Db

Survey

fleasured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,438.00	0.38	115.84	6,182.67	835.93	1,442.18	1,663.76	2.18	-1.97	60.79
6,533.00	0.63	142.97	6,277.67	835.38	1,442.77	1,664.05	0.36	0.26	28.56
6,628.00	0.19	6.09	6,372.66	835.12	1,443.10	1,664.23	0.82	-0.46	-144.08
6,722.00	0.19	98.22	6,466.66	835.25	1,443.28	1,664.44	0.29	0.00	98.01
6,817.00	0.38	114.34	6,561.66	835.10	1,443.72	1,664.77	0.22	0.20	16.97
6,912.00	0.44	157.97	6,656.66	834.63	1,444.14	1,664.94	0.33	0.06	45.93
7,007.00	0.69	154.59	6,751.66	833.78	1,444.52	1,664.90	0.27	0.26	-3.56
7,102.00	0.38	348.09	6,846.65	833.57	1,444.70	1,664.97	1.12	-0.33	-175.26
7,197.00	0.13	258.84	6,941.65	833.86	1,444.53	1,664.94	0.42	-0.26	-93.95
7,292.00	0.06	254.84	7,036.65	833.82	1,444.38	1,664.79	0.07	-0.07	-4.21
7,386.00	0.13	153.59	7,130.65	833.71	1,444.38	1,664.74	0.16	0.07	-107.71
7,481.00	0.50	154.09	7,225.65	833.24	1,444.61	1,664.74	0.39	0.39	0.53
7,576.00	0.94	119.34	7,320.64	832.49	1,445.47	1,665.17	0.63	0.46	-36.58
7,671.00	0.81	164.34	7,415.63	831.46	1,446.33	1,665.48	0.72	-0.14	47.37
7,765.00	0.56	173.09	7,509.63	830.36	1,446.56	1,665.20	0.29	-0.27	9.31
7,859.00	0.44	327.22	7,603.63	830.21	1,446.42	1,665.00	1.04	-0.13	163.97
7,954.00	0.31	279.09	7,698.62	830.56	1,445.97	1,664.76	0.35	-0.14	-50.66
8,049.00	0.88	272.84	7,793.62	830.64	1,444.99	1,663.91	0.60	0.60	-6.58
8,143.00	0.13	320.72	7,887.61	830.75	1,444.20	1,663.26	0.85	-0.80	50.94
8,237.00	0.13	225.34	7,981.61	830.76	1,444.06	1,663.13	0.20	0.00	-101.47
8,331.00	0.31	197.97	8,075.61	830.45	1,443.90	1,662.85	0.22	0.19	-29.12
8,426.00	0.50	189.59	8,170.61	829.79	1,443.76	1,662.43	0.21	0.20	-8.82
8,521.00	0.69	190.97	8,265.61	828.82	1,443.58	1,661.84	0.20	0.20	1.45
8,615.00	0.44	155.72	8,359.60	827.94	1,443.62	1,661.48	0.44	-0.27	-37.50
8,710.00	0.88	195.47	8,454.60	826.90	1,443.57	1,660.97	0.64	0.46	41.84
8,805.00	0.94	136.09	8,549.59	825.64	1,443.92	1,660.72	0.95	0.06	-62.51
8,900.00	0.56	116.22	8,644.58	824.87	1,444.88	1,661.23	0.48	-0.40	-20.92
8,995.00	1.00	161.22	8,739.57	823.88	1,445.56	1,661.40	0.76	0.46	47.37
9,090.00	1.13	164.84	8,834.55	822.19	1,446.07	1,661.10	0.15	0.14	3.81
9,185.00	0.81	164.84	8,929.54	820.64	1,446.49	1,660.78	0.34	-0.34	0.00
9,281.00	0.69	162.09	9,025.53	819.43	1,446.85	1,660.56	0.13	-0.12	-2.86
9,313.00	0.81	162.97	9,057.53	819.03	1,446.97	1,660.50	0.38	0.37	2.75
9,376.00	0.11	216.70	9,120.53	818.56	1,447.07	1,660.37	1.19	-1.11	85.29
9,471.00	0.18	97.07	9,215.53	818.47	1,447.16	1,660.41	0.27	0.07	-125.93
9,565.00	0.25	23.59	9,309.53	818.64	1,447.39	1,660.69	0.28	0.07	-78.17
9,660.00	0.31	62.84	9,404.52	818.95	1,447.70	1,661.11	0.21	0.06	41.32
9,754.00	0.69	112.22	9,498.52	818.85	1,448.45	1,661.73	0.58	0.40	52.53
9,848.00	0.69	105.22	9,592.51	818.49	1,449.52	1,662.53	0.09	0.00	-7.45
9,942.00	0.81	110.34	9,686.51	818.11	1,450.69	1,663.41	0.15	0.13	5.45
10,037.00	0.94	109.34	9,781.49	817.61	1,452.06	1,664.41	0.14	0.14	-1.05
10,130.00 EXT.TD	1.06	140.09	9,874.48	816.70	1,453.33	1,665.14	0.58	0.13	33.06
	4.00	440.00	0.004.47	045.00	4 450 55	4.000.0-			_
10,180.00	1.06	140.09	9,924.47	815.99	1,453.92	1,665.35	0.00	0.00	0.00

Survey Annotations

Measured Vertical **Local Coordinates** Depth Depth +N/-S +E/-W (ft) (ft) (ft) (ft) Comment 10,180.00 9,924.47 815.99 1,453.92 **EXT.TD**

Checked By:

Approved By:

RECEIVED_{Date:}

Operation Summary Report

Well: NBU 922-18C4CS (BLUE)	Spud Conductor: 5/29/2009	Spud Date: 6/17/2009
Project: UTAH-UINTAH	Site: NBU 922-18E PAD	Rig Name No: ELENBURG 12/12, H&P 298/298
Event: DRILLING	Start Date: 6/16/2009	End Date: 8/28/2009

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From	Operation
6/17/2009	7:00 - 11:30	4.50	MIRU	01	A	P	(ft)	MIRU
	11:30 - 15:00	3.50	MIRU	01	В	P		RURT
	15:00 - 17:00	2.00	PRPSPD	06	A	P		P/U BIT #1,MUD MTR,,DIR TOOLS
	17:00 - 0:00	7.00	DRLSUR	02	D	P		DIR DRILL F,40 TO 490',SURVEY EVERY 90,
6/18/2009	0:00 - 14:30	14.50	DRLSUR	02	D	Р		DIR DRILL 490' TO 1390 ,SURVEY 90',
	14:30 - 15:00	0.50	DRLSUR	07	A	P		RIG SERVICE
	15:00 - 0:00	9.00	DRLSUR	02	D	P		DIR DRILL F/1390 TO ,SURVEY EVERY 90,
6/19/2009	0:00 - 14:30	14.50	DRLSUR	02	D	Р		DIR DRILL F/1780 TO 2290 ,SURVEY EVERY 90'
	14:30 - 15:00	0.50	DRLSUR	07	A	P		RIG SERVICE
	15:00 - 16:00	1.00	DRLSUR	08	В	Z		WORK ON PUMPS
	16:00 - 0:00	8.00	DRLSUR	02	D	P		DIR DRILL F/2290 TO 2530 ,SURVEY EVERY 90
6/20/2009	0:00 - 11:30	11.50	DRLSUR	02	D	Р		DIR DRILLF/1830 TO 2760 ,
	11:30 - 12:00	0.50	DRLSUR	07	A	P		RIG SERVICE
	12:00 - 15:00	3.00	DRLSUR	02	D	·		DIR DRILL F/2760 TO 2830,SURVEY=16.82AZ 60.3 20' HIGH & 3' LEFT
	15:00 - 16:00	1.00	DRLSUR	05	С	Р		CIRC ,CLEAN HOLE TO LDDP
	16:00 - 19:00	3.00	CSG	06	D	Р		LDDP & BHA F/CSG RUN
	19:00 - 22:00	3.00	CSG	12	С	Р		RUN 65 JTS #40 J55 9.625 CSG TO 2812'
	22:00 - 0:00	2.00	CSG	12	E	Р		PUMP CEMENT ,RIG RELEASE@ 23:59 6/20/09
8/19/2009	9:00 - 9:30	0.50	RDMO	01	E	Ρ		RIG DOWN EQUIPMENT TO SKID
	9:30 - 10:00	0.50	RDMO	01	С	Р		SKID RIG F/ NBU 922-18C4BS - T/ NBU 922-18C4CS
	10:00 - 10:30	0.50	RDMO	01	В	P		RIG UP EQUIPMENT AFTER SKID
	10:30 - 11:00	0.50	PRPSPD	14	Α	Р		NIPPLE UP B.O.P.E.
	11:00 - 16:00	5.00	PRPSPD	15	A	Р		PRESSURE TEST PIPE RAMS, BLIND RAMS, IBOP, FLOOR VALVE, KILL LINES & KILL LINE VALVES, BOP WING VALVES, HCR VALVE + CHOKE LINE; INNER AND OUTER CHOKE VALVES & MANIFOLD TO 250 PSI LOW @ 5 MINUTES + 5000 PSI HIGH @ 10 MINUTES / TEST ANNULAR TO 250 PSI LOW @ 5 MINUTES + 2500 PSI HIGH @ 10 MINUTES / TEST SUPER CHOKE SURFACE CASING TO 1500 PSI @ 30 MINUTES - FUNCTION TEST CLOSING UNIT - PASSED
	16:00 - 16:30	0.50	PRPSPD	07	Α	Ρ		SERVICE RIG & EQUIPMENT
	16:30 - 21:00 21:00 - 22:00	4.50	PRPSPD	06	A	Р		MAKE UP & ORIENTATE M.W.D. TOOLS / PARTICAL & VISUAL INSPECTION ON H.W.D.P. WHILE T.I.H. / T.I.H. / INSTALL ROTATING RUBBER / TAD CEMENT @ 2772' / PRESSURE TEST PUMPS, LINES & TOP DRIVE TO 2500 P.S.I.
	22:00 - 0:00	1.00	PRPSPD	02	F	Р		BREAK CIRCULATION & DRILL FLOAT TRAC.
	22.00 - 0:00	2.00	PRPSPD	02	D	Р		DRILL (ROTATE & SLIDE) F/ 2830" - T/ 2986' = 156' @ 78.0 FPH / WOB 10/14 / RPM TOP DRV 30-35 / MTR 99 RPM / PUMP SPM 100 = 450 GPM SPP ON/OFF 1650/1400 / TQ ON/OFF 6K-3K / PU/SO/ROT 110/85/96 / H2O + POLY / SLIDE 10' IN 42 HRS = 6.4% OF FOOTAGE DRILLED & 21% OF HOURS DRILLED

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Well: NBU 922	2-18C4CS (BLUE)	Spud C	onductor	: 5/29/20	009	Spud Date: 6	17/2009		
Project: UTAH	I-UINTAH	Site: NB	U 922-1	8E PAD		Rig Name No: ELENBURG 12/12, H&P 2			
Event: DRILLI	NG	Start Da	te: 6/16/	2009			End Date: 8/28/2009		
Active Datum: ₋evel)	RKB @4,920.00ft (Sea	UWI: 0	/9/S/22/I	E/18/0/S	WNW/6/PM/N/1,903.00/W/0/404.00/0/0			
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation	
8/20/2009	0:00 - 6:00	6.00	DRLPRO	02	D	Р		DRILL F/ 2971' – T/ 3482' = 511' @ 85.16 FPH / H20' + POLYMER / WOB 14K-17K / TOP DRIVE RPM 35-40 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 1725/1450 PSI / MUD MOTOR RPM 99 / PU/SO/ROT WT 119/95/103 / TORQUE ON/OFF BOTTOM 7K/3K / SLIDE 112' IN 2.69 HRS = 21.9% OF FOOTAGE DRILLED & 44.89 OF HOURS DRILLED	
	6:00 - 17:30	11.50	DRLPRO	02	D	Р		DRILL F/ 3482' - T/ 4406' = 924' @ 80.3 FPH / H2O + POLYMER / WOB 18K-19K / TOP DRIVE RPM 35-40 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 1960/1586 PSI / MUD MOTOR RPM 99 / PU/SO/ROT WT 150/96/11: / TORQUE ON/OFF BOTTOM 6K/4K / SLIDE 248' IN 5.34 HRS = 26.8% OF FOOTAGE DRILLED & 46.4% OF HOURS DRILLED	
	17:30 - 18:00	0.50	DRLPRO	07	Α	Р		SERVICE RIG & EQUIPMENT / WORK PIPE RAMS / VISUAL INSPECTION ON B.O.P.E.	
	18:00 - 0:00	6.00	DRLPRO	02	D	Р		DRILL F/ 4406' - T/ 4750' = 344' @ 57.3 FPH / H2O + POLYMER / WOB 18K-19K / TOP DRIVE RPM 35-40 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 1900/1585 PSI / MUD MOTOR RPM 99 / PU/SO/ROT WT 150/102/121 / TORQUE ON/OFF BOTTOM 9K/5K / SLIDE 166' IN 3.09 HRS = 48.2% OF FOOTAGE DRILLED & 51.5% OF HOURS DRILLED	
8/21/2009	0:00 - 6:00	6.00	DRLPRO	02	D	Р		DRILL (ROTATE/SLIDE) F/ 4750' – T/ 5048' = 298' @ 49.6 FPH / H2O + POLYMER / WOB 18K-19K / TOP DRIVE RPM 35-40 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 1935/1610 PSI / MUD MOTOR RPM 99 / PU/SO/ROT WT 160/100/126 / TORQUE ON/OFF BOTTOM 11K/6K / SLIDE 192' IN 4.0 HRS = 64.4% OF FOOTAGE DRILLED & 66.6% OF HOURS DRILLED	
	6:00 - 17:00	11.00	DRLPRO	02	D	P		DRILL (ROTATE/SLIDE) F/ 5048' – T/ 5825' = 777' @ 70.63 FPH / H2O + POLYMER / WOB 18K-20K / TOP DRIVE RPM 35-40 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2060/1660 PSI / MUD MOTOR RPM 99 / PU/SO/ROT WT 165/110/135 / TORQUE ON/OFF BOTTOM 10K/7K / SLIDE 173' IN 4.0 HRS = 22.2% OF FOOTAGE DRILLED & 36.3% OF HOURS DRILLED	
	17:00 - 17:30	0.50	DRLPRO	07	Α	Р		SERVICE RIG & EQUIPMENT / WORK PIPE RAMS / VISUAL INSPECTION ON B.O.P.E.	
	17:30 - 0:00	6.50	DRLPRO	02	D	P		DRILL (ROTATE/SLIDE) F/ 5825' - T/ 6391' = 566' @ 87.01 FPH / H2O + POLYMER / WOB 18K-20K / TOP DRIVE RPM 35-40 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2450/2100 PSI / MUD MOTOR RPM 109 / PU/SO/ROT WT 200/111/146 / TORQUE ON/OFF BOTTOM 13K/9K / SLIDE 62' IN 2.67 HRS = 10.9% OF FOOTAGE DRILLED & 41.0% OF HOURS DRILLED	

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DIV. OF OIL, GAS & MINING

Vell: NBU 92	2-18C4CS (BLUE))	Spud Co	onductor	: 5/29/20	009	Spud Date: 6	17/2009		
Project: UTAH	H-UINTAH		Site: NB	U 922-1	8E PAD			Rig Name No: ELENBURG 12/12, H&P 298/298		
Event: DRILL	ING		Start Da	te: 6/16/2	2009			End Date: 8/28/2009		
Active Datum Level)	: RKB @4,920.00ft	(above Mear	Sea	UWI: 0	/9/S/22/I	E/18/0/S	WNW/6/PM/N/1	,903.00/W/0/404.00/0/0		
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation		
8/22/2009	0:00 - 6:00 6:00 - 17:30	11.50	DRLPRO	02	D	P		DRILL (ROTATE/SLIDE) F/ 6391' - T/ 6931' = 540' @ 90.0 FPH / H2O + POLYMER / WOB 18K-20K / TOP DRIVE RPM 35-40 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2450/2100 PSI / MUD MOTOR RPM 109 / PU/SO/ROT WT 220/115/153 / TORQUE ON/OFF BOTTOM 13K/10K / SLIDE 28' IN .75 HRS = 5.1% OF FOOTAGE DRILLED & 12.5% OF HOURS DRILLED DRILL (ROTATE/SLIDE) F/ 6931' - T/ 7532' = 601' @ 52.2 FPH / WOB 18K-20K / TOP DRIVE RPM 35-40 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2300/2075 PSI / MUD MOTOR RPM 109 / PU/SO/ROT WT 230/120/162 / TORQUE ON/OFF BOTTOM 14K/12I / SLIDE 40' IN 1.5 HRS = 6.6% OF FOOTAGE DRILLED & 13% OF HOURS DRILLED / START LITE MUD UP @ 7000' / ADDING WHOLE MUD		
	17:30 - 18:00	0.50	DRLPRO	07	Α	Р		FROM ON LOCATION STORAGE / 33 VIS - 9.3 PPG SERVICE RIG & EQUIPMENT / WORK PIPE RAMS		
	18:00 - 0:00	6.00	DRLPRO	02	D	Р		/ VISUAL INSPECTION ON B.O.P.E. DRILL (ROTATE/SLIDE) F/ 7532' - T/ 7735' = 230' @ 33.8 FPH / WOB 18K-21K / TOP DRIVE RPM 35-40 / PUMP 105 SPM = 473 GPM / PUMP		
								PRESSURE ON/OFF BOTTOM 2250/2000 PSI / MUD MOTOR RPM 104 / PU/SO/ROT WT 240/126/166 / TORQUE ON/OFF BOTTOM 14K/12 / SLIDE 34' IN 1.25 HRS = 14.7% OF FOOTAGE DRILLED & 20.8% OF HOURS DRILLED / 36 VIS 9.6 PPG		
8/23/2009	0:00 - 6:00	6.00	DRLPRO	02	D	Р		DRILL (ROTATE/SLIDE) F/ 7735' - T/ 7945' = 210' @ 35.0 FPH / WOB 20K-23K / TOP DRIVE RPM 35-40 / PUMP 105 SPM = 473 GPM / PUMP PRESSURE ON/OFF BOTTOM 2330/2050 PSI / MUD MOTOR RPM 104 / PU/SO/ROT WT 248/126/168 / TORQUE ON/OFF BOTTOM 14K/12 / SLIDE 28' IN 1.0 HRS = 13.3% OF FOOTAGE DRILLED & 16.6% OF HOURS DRILLED / 34 VIS- 9.8 PPG / WEIGHT RAISED TO CONTROL SHALE		
	6:00 - 17:30	11.50	DRLPRO	02	D	Р		DRILL (ROTATE/SLIDE) F/ 7945' – T/ 8370' = 425' @ 36.9 FPH / WOB 19K-21K / TOP DRIVE RPM 30-35 / PUMP 105 SPM = 473 GPM / PUMP PRESSURE ON/OFF BOTTOM 2430/2236 PSI / MUD MOTOR RPM 104 / PU/SO/ROT WT 250/134/170 / TORQUE ON/OFF BOTTOM 16K/14/ / SLIDE 40' IN 1.75 HRS = 9.4% OF FOOTAGE DRILLED & 15.2% OF HOURS DRILLED / 40 VIS - 10.5 PPG		
	17:30 - 18:00	0.50	DRLPRO	07	Α	P		SERVICE RIG & EQUIPMENT / WORK PIPE RAMS / VISUAL INSPECTION ON B.O.P.E.		
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILL (ROTATE/SLIDE) F/ 8370' – T/ 8590' = 220' @ 36.6 FPH / WOB 19K-21K / TOP DRIVE RPM 35-45 / PUMP 105 SPM = 473 GPM / PUMP PRESSURE ON/OFF BOTTOM 2570/2300 PSI / MUD MOTOR RPM 104 / PU/SO/ROT WT 245/130/174 / TORQUE ON/OFF BOTTOM 15K/14I / SLIDE 59' IN 2.5 HRS = 26.8% OF FOOTAGE DRILLED & 41.6% OF HOURS DRILLED / 40 VIS – 10.5 PPG		

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Operation Summary Report

Well: NBU 922	2-18C4CS (BLUE)		Spud Co	onductor	: 5/29/20	09	Spud Date: 6/	7/2009		
Project: UTAH	-UINTAH		Site: NB	U 922-1	8E PAD			Rig Name No: ELENBURG 12/12, H&P 298/298		
Event: DRILLII	NG		Start Da	te: 6/16/	2009			End Date: 8/28/2009		
Active Datum: Level)	RKB @4,920.00ft (above Mean	Sea	UWI: 0	/9/S/22/E	E/18/0/S	WNW/6/PM/N/1,	903.00/W/0/404.00/0/0		
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation		
8/24/2009	0:00 - 6:00 6:00 - 18:00	6.00	DRLPRO	02	D	P		DRILL (ROTATE/SLIDE) F/ 8590' – T/ 8774' = 184' @ 30.66 FPH / WOB 19K-21K / TOP DRIVE RPM 35-45 / PUMP 105 SPM = 473 GPM / PUMP PRESSURE ON/OFF BOTTOM 2575/2310 PSI / MUD MOTOR RPM 104 / PU/SO/ROT WT 248/131/175 / TORQUE ON/OFF BOTTOM 15K/13K / SLIDE 17' IN .83 HRS = 9.2% OF FOOTAGE DRILLED & 13.8% OF HOURS DRILLED / 43 VIS – 10.5 PPG DRILL (ROTATE/SLIDE) F/ 8774' – T/ 9128' = 354' @ 29.5 FPH / WOB 19K-21K / TOP DRIVE RPM 30-40 / PUMP 105 SPM = 473 GPM / PUMP PRESSURE ON/OFF BOTTOM 2778/2545 PSI / MUD MOTOR RPM 104 / PU/SO/ROT WT 258/140/180 / TORQUE ON/OFF BOTTOM 16K/14K / SLIDE 107' IN 4.5 HRS = 30.2% OF FOOTAGE DRILLED & 37.5% OF HOURS DRILLED / 44 VIS – 11.0 PPG / MUD WEIGHT RAISED TO CONTROL SHALE / HOLE TAKING FLUID - SWEEPS WOULD NOT HEAL - BYPASSED & ADDED 3% LCM TO		
	18:00 - 18:30	0.50	DRLPRO	07	Α	Р		ACTIVE SYSTEM SERVICE RIG & EQUIPMENT / WORK PIPE RAMS		
	18:30 - 0:00	5.50	DRLPRO	02	D	P		/ VISUAL INSPECTION ON B.O.P.E. DRILL (ROTATE/SLIDE) F/ 9128' - T/ 9304' = 176' @ 32.0 FPH / WOB 19K-21K / TOP DRIVE RPM 30-40 / PUMP 105 SPM = 473 GPM / PUMP PRESSURE ON/OFF BOTTOM 2825/2600 PSI / MUD MOTOR RPM 104 / PU/SO/ROT WT 270/140/184 / TORQUE ON/OFF BOTTOM 16K/14K / SLIDE 26' IN 1.75 HRS = 14.7% OF FOOTAGE DRILLED & 31.8% OF HOURS DRILLED / 44 VIS - 11.4 PPG - 3% LCM / RAISED MUD WEIGHT TO 11.4 PPG TO CONTROL GAS & STABILIZE HOLE FOR BIT TRIP / LOST APPROXIMATELY 175 BBLS TO HOLE LAST 24 HOURS		
8/25/2009	0:00 - 0:30	0.50	DRLPRO	02	D	Р		DRILL (ROTATE) F/9304' - T/9311' = 7' @ 14 FPF/WOB 19K-22K / TOP DRIVE RPM 35-45 / PUMP 105 SPM = 473 GPM / PUMP PRESSURE ON/OFF BOTTOM 2825/2600 PSI / MUD MOTOR RPM 104 / PU/SO/ROT WT 270/140/184 / TORQUE ON/OFF BOTTOM 16K/14K / 100% OF FOOTAGE ROTATE! / 44 VIS - 11.4 PPG / RAISE MUD WEIGHT TO CONTROL GAS & STABILIZE HOLE FOR BIT TRIF		
	0:30 - 5:30	5.00	DRLPRO	06	Α	Р		P.O.O.H. @ 9311' W/ BIT #1 (PULL 4 STANDS - PUMP SLUG) / PULL ROTATING RUBBER @ B.H.A.		
	5:30 - 6:30	1.00	DRLPRO	06	Α	Р		LAY DOWN M.W.D. TOOLS / BREAK BIT / LAY DOWN MOTOR / WORK BLIND & PIPE RAMS		
	6:30 - 7:30	1.00	DRLPRO	06	Α .	P		MAKE UP MOTOR & BIT / INSTALL M.W.D. TOOLS & OREIANTATE MOTOR / SHALLOW TEST M.W.D. TOOLS		
	7:30 - 11:30	4.00	DRLPRO	06	Α	Р		T.I.H. W/ BIT #2 / INSTALL ROTATING RUBBER / BREAK CIRCULATION AT SELECTED INTERVAL: /		
	11:30 - 12:00	0.50	DRLPRO	03	D	Р		PRECAUTIONARY REAM F/ 9142' - T/ 9311' / CUT BIT PATTERN & SOFT START BIT / LOST APPROXIMATELY 44 BBLS MUD ON TRIP		

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Operation Summary Report

Elember Date Start Date	Well: NBU 922	2-18C4CS (BLUE)		Spud C	onductor	: 5/29/20	009	Spud Date: 6	7/2009		
Active Datum RKB @4,920.00ft (above Mean Sea UWit: 0/9/6/22/E/18/0/SWNW/6/PMIN/1,903.00/Win/dod-0/00/0 (bevel) Date	Project: UTAH	I-UINTAH		Site: NB	U 922-1	8E PAD			Rig Name No: ELENBURG 12/12, H&P 298/298		
Date Time Duration Phase Code Sub PJU MD From Operation	Event: DRILLI	NG		Start Da	te: 6/16/	2009			End Date: 8/28/2009		
Date Start-End (hg)		RKB @4,920.00ft (a	above Mea	n Sea	UWI: 0	/9/S/22/I	E/18/0/S	WNW/6/PM/N/	1,903.00/W/0/404.00/0/0		
12:00 - 15:30 3.50		Start-End		Phase	Code		P/U		Operation		
15:30		12:00 - 15:30	3.50	DRLPRO	02	D	Р		DRILL (ROTATE/SLIDE) F/ 9311' – T/ 9426' = 115' @ 32.8 FPH / WOB 19K-22K / TOP DRIVE RPM 35-45 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2870/2700 PSI / MUD MOTOR RPM 72 / PU/SO/ROT WT 255/145/184 / TORQUE ON/OFF BOTTOM 16K/15K / SLIDE 20' IN 1.5 HOURS = 17.3% OF FOOTAGE & 42.8% OF TIME DRILLED / 43 VIS – 11.5 PPG - 4% LCM / HOLE SEEPING - RAISING L.C.M. TO 5% / LOST APPROXIMATELY 38 BBI S		
16:00 - 0:00 8:00 DRLPRO 02 D P DRILL (ROTATE) F) 4426" - TJ 9885 = 2 PFH / WOP 95 SPM = 428 GPM / PUMP PRE-		15:30 - 16:00	0.50	DRLPRO	07	Α	Р		SERVICE RIG & EQUIPMENT / VISUAL		
8/26/2009 0:00 - 6:00 6:00 DRLPRO 02 D P DRILL (ROTATE) F/9868; -17,9816 = 11.		16:00 - 0:00	8.00	DRLPRO	02	D	Р		DRILL (ROTATE) F/ 9426' - T/ 9685' = 259' @ 32.3 FPH / WOB 19K-22K / TOP DRIVE RPM 30-40 / PUMP 95 SPM = 428 GPM / PUMP PRESSURE ON/OFF BOTTOM 2700/2550 PSI / MUD MOTOR RPM 68 / PU/SO/ROT WT 280/140/192 / TORQUE ON/OFF BOTTOM 16K/15K / 45 VIS - 11.6 PPG - 5% LCM / LOST APPROXIMATELY 15 BBLS /		
6:00 - 12:30 6.50 DRLPRO 02 D P DRILL (ROTATE) F; 9816' - T; 9992' = 1; FPH / WOB 18K-22K / TOP DRIVE RPM PUMP 88 SPM = 396 GPM / PUMP PRE: ON/OFF BOTTOM 2150/1975 PSI / MUD RPM 63 / PU/SO/ROT WT 293/159/196 / ON/OFF BOTTOM 14K/13K / 100% OF F ROTATED / 44 VIS - 11.7 PPG - 5% LCM / 100% OF F ROTATED / 44 VIS - 11.7 PPG - 5% LCM / TOP DRIV 30-45 / PUMP 100 SPM = 450 GPM / PUMP PRESURE ON/OFF BOTTOM 2450/230 MUD MOTOR RPM 72 / PU/SO/ROT WT 295/160/200 / TORQUE ON/OFF BOTTOM 2450/230 MUD MOTOR RPM 72 / PU/SO/ROT WT 295/160/200 / TORQUE ON/OFF BOTTOM 2450/230 MUD MOTOR RPM 72 / PU/SO/ROT WT 295/160/200 / TORQUE ON/OFF BOTTOM 2450/230 MUD MOTOR RPM 72 / PU/SO/ROT WT 295/160/200 / TORQUE ON/OFF BOTTOM 2450/230 MUD MOTOR RPM 72 / PU/SO/ROT WT 295/160/200 / TORQUE ON/OFF BOTTOM 2450/230 MUD MOTOR RPM 72 / PU/SO/ROT WT 295/160/200 / TORQUE ON/OFF BOTTOM 2450/230 MUD MOTOR RPM 72 / PU/SO/ROT WT 295/160/200 / TORQUE ON/OFF BOTTOM 2450/230 MUD MOTOR RPM 72 / PU/SO/ROT WT 295/160/200 / TORQUE ON/OFF BOTTOM 2450/230 MUD MOTOR RPM 72 / PU/SO/ROT WT 295/160/200 / TORQUE ON/OFF BOTTOM 2450/230 MUD MOTOR RPM 72 / PU/SO/ROT WT 295/160/200 / TORQUE ON/OFF BOTTOM 2450/230 MUD MOTOR RPM 72 / PU/SO/ROT WT 295/160/200 / TORQUE ON/OFF BOTTOM 2450/230 MUD MOTOR RPM 72 / PU/SO/ROT WT 295/160/200 / TORQUE ON/OFF BOTTOM 2450/230 MUD MOTOR RPM 72 / PU/SO/ROT WT 295/160/200 / TORQUE ON/OFF BOTTOM 2450/200 MUD MOTOR RPM 72 / PU/SO/ROT WT 295/160/200 / TORQUE ON/OFF BOTTOM 2450/200 MUD MOTOR RPM 72 / PU/SO/ROT WT 295/160/200 / TORQUE ON/OFF BOTTOM 2450/200 MUD MOTOR RPM 72 / PU/SO/ROT WT 295/160/200 / TORQUE ON/OFF BOTTOM 2450/200 MUD MOTOR RPM 72 / PU/SO/ROT WT 295/160/200 / TORQUE ON/OFF BOTTOM 2450/200 MUD MOTOR RPM 72 / PU/SO/ROT WT 295/160/200 / TORQUE ON/OFF BOTTOM 2450/200 MUD MOTOR RPM 72 / PU/SO/ROT WT 295/160/200 / TORQUE ON/OFF BOTTOM 2450/200 MUD MOTOR RPM 72 / PU/SO/ROT WT 295/160/200 / TORQUE ON/OFF BOTTOM 2450/200 MUD MOTOR RPM 72 / PU/SO/ROT WT 295/160/200 / TORQUE ON/OFF AMOTOM 2450/200 MUD MOTOR RPM 72 / PU/SO/ROT WT 295/160	8/26/2009	0:00 - 6:00	6.00	DRLPRO	02	D	Р		DRILL (ROTATE) F/ 9685' - T/ 9816' = 131' @ 21.8 FPH / WOB 18K-21K / TOP DRIVE RPM 30-40 / PUMP 90 SPM = 405 GPM / PUMP PRESSURE ON/OFF BOTTOM 2375/2200 PSI / MUD MOTOR RPM 65 / PU/SO/ROT WT 290/148/192 / TORQUE ON/OFF BOTTOM 16K/14K / 100% OF FOOTAGE		
12:30 - 21:30 9.00 DRLPRO 02 D P DRILL (ROTATE) F/ 9992' - T/ 10180' (T. @ 20.8 FPH / WOB 18K-23K / TOP DRIV. 30-45 / PUMP 100 SPM = 450 GPM / PUI PRESSURE ON/OFF BOTTOM 2450/23K MUD MOTOR RPM 72 / PU/SO/ROT WT 295/160/200 / TORQUE ON/OFF BOTTOM 2450/23K MUD MOTOR RPM 72 / PU/SO/ROT WT 295/160/200 / TORQUE ON/OFF BOTTOM / 100% OF FOOTAGE ROTATED / 44 VIX PPG - 5% LCM / TOTAL LOSSES 24 HC BBLS		6:00 - 12:30	6.50	DRLPRO	02	D	Р		DRILL (ROTATE) F/ 9816' – T/ 9992' = 176' @ 27.1 FPH / WOB 18K-22K / TOP DRIVE RPM 30-45 / PUMP 88 SPM = 396 GPM / PUMP PRESSURE ON/OFF BOTTOM 2150/1975 PSI / MUD MOTOR RPM 63 / PU/SO/ROT WT 293/159/196 / TORQUE ON/OFF BOTTOM 14K/13K / 100% OF FOOTAGE		
12:30 - 12:30		12:30 - 21:30	9.00	DRLPRO	02	D	Р		DRILL (ROTATE) F/ 9992' - T/ 10180' (T.D.) = 188' @ 20.8 FPH / WOB 18K-23K / TOP DRIVE RPM 30-45 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2450/2300 PSI / MUD MOTOR RPM 72 / PU/SO/ROT WT 295/160/200 / TORQUE ON/OFF BOTTOM 16K/15K / 100% OF FOOTAGE ROTATED / 44 VIS - 11.8 PPG - 5% LCM / TOTAL LOSSES 24 HOURS = 45		
22:30 - 0:00 1.50 DRLPRO 06 E P SHORT TRIP TO 2800' (ROTATE & PUM 10180' - T/ 9520' - STRAIGHT PULL F/ 98 9145') / PUMP PILL / P.O.O.H. 8/27/2009 0:00 - 2:00 2.00 EVALPR 06 E P SHORT TRIP (ROTATE & PUMP OUT F/ 9520' - STRAIGHT PULL F/ 9520' - T/ 914 PILL / P.O.O.H. TO 2800' 2:00 - 5:00 3.00 EVALPR 06 E P SHORT TRIP / T.I.H WASH THRU BRII 7255' / T.I.H. / BREAKING CIRCULATION SELECTED INTERVALS 5:00 - 5:30 0.50 EVALPR 03 D P PRECAUTIONARY REAM F/ 9992' - T/ 16 FILL ON BOTTOM 5:30 - 7:30 2.00 EVALPR 05 C P CIRCULATE & CONDITION HOLE FOR E			0.00	DRLPRO	07	Α	Р		SERVICE RIG & EQUIPMENT / WORK PIPE RAMS		
22:30 - 0:00			1.00	DRLPRO	05	С	Р		CIRCULATE & CONDITION HOLE FOR SHORT TRIP / ROTATE & RECIPROCATE PIPE 90'		
8/27/2009 0:00 - 2:00 2.00 EVALPR 06 E P SHORT TRIP (ROTATE & PUMP OUT F/ 9520' - STRAIGHT PULL F/ 9520' - T/ 914 PILL / P.O.O.H. TO 2800' 2:00 - 5:00 3.00 EVALPR 06 E P SHORT TRIP / T.I.H WASH THRU BRII 7255' / T.I.H. / BREAKING CIRCULATION SELECTED INTERVALS 5:00 - 5:30 0.50 EVALPR 03 D P PRECAUTIONARY REAM F/ 9992' - T/ 10 FILL ON BOTTOM 5:30 - 7:30 2.00 EVALPR 05 C P CIRCULATE & CONDITION HOLE FOR I			1.50	DRLPRO	06	E	Р		SHORT TRIP TO 2800' (ROTATE & PUMP OUT F/ 10180' - T/ 9520' - STRAIGHT PULL F/ 9520' - T/		
2:00 - 5:00 3.00 EVALPR 06 E P SHORT TRIP / T.I.H WASH THRU BRII 7255' / T.I.H. / BREAKING CIRCULATION SELECTED INTERVALS 5:00 - 5:30 0.50 EVALPR 03 D P PRECAUTIONARY REAM F/ 9992' - T/ 10 FILL ON BOTTOM 5:30 - 7:30 2.00 EVALPR 05 C P CIRCULATE & CONDITION HOLE FOR L	8/27/2009		2.00	EVALPR	06	E	Р		SHORT TRIP (ROTATE & PUMP OUT F/ 10180' - T. 9520' - STRAIGHT PULL F/ 9520' - T/ 9145') / PUMF		
5:00 - 5:30		2:00 - 5:00	3.00	EVALPR	06	E	P		SHORT TRIP / T.I.H WASH THRU BRIDGE @ 7255' / T.I.H. / BREAKING CIRCULATION AT		
					03	_			PRECAUTIONARY REAM F/ 9992' - T/ 10180' W/ 4' FILL ON BOTTOM		
SWEEP HOLE W/ HIGH VIS SWEEPS / I		5:30 - 7:30	2.00	EVALPR	05	С	P		CIRCULATE & CONDITION HOLE FOR LOGS / SWEEP HOLE W/ HIGH VIS SWEEPS / LOST APPROX. 3 BBLS MUD TO HOLE / SPOT 50 VIS		

DEC 2 1 2009

Operation Summary Report

	2-18C4CS (BLUE)		Spud Co			U 3	Spud Date: 6/			
Project: UTAH	-UINTAH		Site: NB	U 922-18	BE PAD			Rig Name No: ELENBURG 12/12, H&P 298/298		
Event: DRILLII	NG		Start Da	te: 6/16/2	2009			End Date: 8/28/2009		
Active Datum: _evel)	RKB @4,920.00ft (above Mear	ı Sea	UWI: 0	/9/S/22/E	E/18/0/S\	NNW/6/PM/N/1	/1,903.00/W/0/404.00/0/0		
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation		
	7:30 - 13:00	5.50	EVALPR	06	В	Р		P.O.O.H. FOR LOGS / PUMP/ROTAT OUT F/ 10180 - T/ 9041 / PUMP PILL / P.O.O.H. / LAY DOWN M.W.D. TOOLS / BREAK BIT & STAND BACK MOTOR + RELATED TOOLS		
	13:00 - 15:30	2.50	EVALPR	11	D	Р		SAFETY MEETING / M.I.R.U. HALLIBURTON LOGGING EQUIPMENT / R.I.H LOGS BRIDGED @ 8114' - UNABLE TO WORK THRU / ATTEMPT TO LOG UP - TOOLS FAILED / P.O.O.H SWAP OUT TOOLS - REMOVE BOW SPRING & FLEX JOINT / R.I.H.		
	15:30 - 16:30	1.00	EVALPR	11	D	Z		ATTEMPT TO LOG UP - TOOLS FAILED / P.O.O.H - SWAP OUT TOOLS - REMOVE BOW SPRING & FLEX JOINT / HALLIBURTON REDUCED TICKET BY \$1041.00 FOR 1 HOUR OF RIG TIME		
	16:30 - 20:30	4.00	EVALPR	11	D	Р		R.I.H HIT BRIDGE @ 8110' / COULD NOT WOR THROUGH / LOG UP W/ TRIPLE COMBO TOOLS F/ 8110' - T / SURFACE (2832') / R.D.M.O. HALLIBURTON EQUIPMENT		
	20:30 - 21:00	0.50	CSG	14	В	Ρ		PULL WEAR BUSHING / VISUAL INSPECTION ON B.O.P.E. / WORK PIPE & BLIND RAMS		
	21:00 - 22:00	1.00	CSG	12	Α	P		SAFETY MEETING / M.I.R.U. WEATHERFORD EQUIPMENT / INSPECT EQUIPMENT FOR PROPER RIG UP		
	22:00 - 0:00	2.00	CSG	12	С	Р		RUN 8 JTS P-110 #11.6 LT&C 4.5 CASING + 1 XO JT I-80 11.6# FROM LTC TO BTC,234 JTS I-80 #11.6 BTC 4.5 CASING + RELATED TOOLS / BREAKING CIRCULATION @ SELECTED INTERVALS		
8/28/2009	0:00 - 6:00	6.00	CSG	12	С	Р		FINISH RUN 8 JTS P-110 #11.6 LT&C 4.5 CASING + 1 XO JT I-80 11.6# FROM LTC TO BTC,234 JTS I-80 #11.6 BTC 4.5 CASING + RELATED TOOLS / BREAKING CIRCULATION @ SELECTED INTERVALS / PUSHED THROUGH BRIDGE @ 8110' W/ 40K / INSTALL SOLID MANDREL + ROTATING RUBBER / BREAK CIRCULATION / HOLD CASING @ 10169' WHILE CIRCULATING & CEMENTING		
	6:00 - 7:30	1.50	CSG	05	D	Р		CIRCULATE & CONDITION HOLE FOR CEMENT R.D.M.O. CASING EQUIPMENT / SPOT B.J. CEMENTING EQUIPMENT / LOST FULL RETURN 30 MINUTES INTO CIRCULATION / ADDED LCM TO MUD ON LOCATION & PUMPED APPROXIMATELY 420 BBLS WITH NO RETURNS 48 VIS - 11.8 - 10% LCM		

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DEC 2 1 2009

DIV. OF OIL, GAS & MINING

12/10/2009 10:58:42AM 6

US ROCKIES REGION Operation Summary Report Well: NBU 922-18C4CS (BLUE) Spud Conductor: 5/29/2009 Spud Date: 6/17/2009 Project: UTAH-UINTAH Site: NBU 922-18E PAD Rig Name No: ELENBURG 12/12, H&P 298/298 Event: DRILLING Start Date: 6/16/2009 End Date: 8/28/2009 UWI: 0/9/S/22/E/18/0/SWNW/6/PM/N/1,903.00/W/0/404.00/0/0 Active Datum: RKB @4,920.00ft (above Mean Sea Level) Date Time Duration Phase Sub P/U MD From Code Operation Start-End (hr) Code (ft) 7:30 - 11:30 4.00 CSG 12 SAFETY MEETING (REVIEW J.S.A.) TEST PUMPS & LINES TO 4300 PSI / PUMP 40 BBLS H2O AT A RATE OF 8.6 BBP / PRESSURING UP TO 2000 PSI / PUMPED 20 MORE BBLS H2O W/ NO BREAK / STARTED + 625 SX LEAD CEMENT @ 11.8 ppg (PREM LITE II + .05llbs/sx STATIC FREE + .25 pps CELLOFLAKE + 5 pps KOL SEAL + 8% bwoc BENTONITE + .2% bwoc SODIUM METASILICATE + 203 BBLS H2O / (13.67 gal/sx, 2.42 yield) WITH NO CIRCULATION + 1278 SX TAIL @ 14.3 ppg (CLS G 50/50 POZ + 10% SALT + .05llbs/sx STATIC FREE + .2% R3 + .002 GPS FP-6L + 2% BENTONITE + 180BBLS H2O / (5.90 gal/sx, 1.31 yield) FULL RETURNS @ 60 BBLS TAIL PUMPED / DROP PLUG & DISPLACE W/ 158 BBLS H2O + ADDITIVES / LOST RETURNS 45 BBLS INTO **DISPLACEMENT W/ PARTIAL RETURNS** THROUGHOUT DISPLACEMENT / LIFT PRESSURE @ 2630 PSI (CALC TOP OF TAIL @ 3767') / BUMP PLUG W/ 3275 PSI - HOLD 5 MINUTES W/ NO LOSS / PLUG DOWN @ 11:00 HOURS W/ NO CEMENT TO SURFACE / FLOATS HELD W/ 2.0 BBLS BACK TO INVENTORY / R.D.M.O. CEMENT EQUIPMENT 11:30 - 12:30 1.00 SUSPEN LAND CASING W/ SHOE @ 10171' - TOP OF FLOAT COLLAR @ 10129' & TOP OF MARKER JOINT @ MARKER 5301' / LAY DOWN LANDING JOINT & ROTATING RUBBER 12:30 - 13:00 0.50 CSG 14 NIPPLE DOWN B.O.P.E. / CLEAN PITS + RELATED Α EQUIPMENT / RELEASE RIG @ 13:00

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DEC 2 1 2009

DIV. OF OIL, GAS & MINING

US ROCKIES REGION Operation Summary Report Well: NBU 922-18C4CS (BLUE) Spud Conductor: 5/29/2009 Spud Date: 6/17/2009 Project: UTAH-UINTAH Site: NBU 922-18E PAD Rig Name No: Event: COMPLETION Start Date: 11/9/2009 End Date: 11/23/2009 Active Datum: RKB @4,920.00ft (above Mean Sea UWI: 0/9/S/22/E/18/0/SWNW/6/PM/N/1,903.00/W/0/404.00/0/0 Level) MD From Time Duration Sub P/U Operation Date Phase Code Start-End (hr) Code (ft) 11/9/2009 Ρ 7:00 - 18:00 COMP 36 В STG 1)PU 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 11.00 90 & 120 DEG PHASING. RIH PER F/ 9872'-74', 4 SPF, 8 HOLES. 9742'-46', 4 SPF, 16 HOLES. 9682'-88', 3 SPF, 18 HOLES. POOH. WHP 480 PSI, BRK 3491 PSI @ 6.4 BPM. ISIP 2906 PSI, FG.73. PUMP 100 BBLS @ 49.6 BPM @ 5465 PSI = 100% HOLES OPEN. MP 6434 PSI, MR 49.9 BPM, AP 4936 PSI, AR 44.1 BPM, ISIP 2900 PSI, FG .73, NPI 6 PSI. PMP 1655 BBLS SW & 57,737 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 62,737 LBS, STG 2)PU 4 1/2 8K HAL CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 9654' P/U PERF F/ 9622'-24', 4 SPF, 8 HOLES.

Ρ

7:00 - 7:15

0.25

COMP

48

11/10/2009

9554'-58', 4 SPF, 16 HOLES. 9480'-86', 3 SPF, 18 HOLES.

POOH.

HSM. SIM OPS.

12/10/2009 10:59:27AM

Well: NBU 922	2-18C4CS (BLUE)	<u> </u>	Spud C	onductor	: 5/29/20	009	Spud Date: 6	7/2009		
Project: UTAH		<u></u>		3U 922-18				Rig Name No:		
Event: COMP				ate: 11/9/2				End Date: 11/23/2009		
	RKB @4,920.00ft	(above Mean				 E/18/0/S1	WNW/6/PM/N/1	,903.00/W/0/404.00/0/0		
_evel)		(0.0010 11.001.7	-					100010011110110110110110110110110110110		
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation		
	7:15 - 17:00	9.75	COMP	36	В	Р		STG 2)WHP 2416 PSI, BRK 3437 PSI @ 6.4 BPM. ISIP 2890 PSI, FG .73. PUMP 100 BBLS @ 51.5 BPM @ 5443 PSI = 100% HOLES OPEN. MP 6465 PSI, MR 51.6 BPM, AP 4990 PSI, AR 43.9 BPM, ISIP 3056 PSI, FG .75, NPI 166 PSI. PMP 809 BBLS SW & 24,719 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 29,719 LBS,		
								STG 3)PU 4 1/2 8K HAL CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 9436' P/U PERF F/ 9402'-06', 3 SPF, 12 HOLES. 9368'-70', 4 SPF, 8 HOLES. 9196'-04', 3 SPF, 24 HOLES. POOH. WHP 2006 PSI, BRK 2429 PSI @ 6.4 BPM. ISIP 2333 PSI, FG .68. PUMP 100 BBLS @ 50.5 BPM @ 4331 PSI = 100% HOLES OPEN. MP 5534 PSI, MR 50.8 BPM, AP 4236 PSI, AR 48.2 BPM, ISIP 2420 PSI, FG .68, NPI 87 PSI. PMP 2767 BBLS SW & 110,661 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 115,661 LBS, SWI.		
								STG 4)PU 4 1/2 8K HAL CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 9094' P/U PERF F/ 9060'-64', 4 SPF, 16 HOLES. 9018'-24', 4 SPF, 24 HOLES. POOH WHP 2100 PSI, BRK 3745 PSI @ 6.4 BPM. ISIP 2615 PSI, FG .72. PUMP 100 BBLS @ 50.5 BPM @ 5000 PSI = 100% HOLES OPEN. MP 5681 PSI, MR 50.7 BPM, AP 4423 PSI, AR 43.7 BPM, ISIP 2645 PSI, FG .72, NPI 30 PSI. PMP 814 BBLS SW & 24,733 LBS OF 30/50 SND 8 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 29,733 LBS,		
								STG 5)PU 4 1/2 8K HAL CBP & 3 3/8 EXP GUN, 23 GM, 36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8688' P/U PERF F/8652'-58', 4 SPF, 24 HOLES. 8594'-98', 4 SPF, 16 HOLES. POOH. WHP 875 PSI, BRK 3734 PSI @ 6.4 BPM. ISIP 2060 PSI, FG .67. PUMP 100 BBLS @ 50.5 BPM @ 4700 PSI = 90% HOLES OPEN. MP 5465 PSI, MR 50.8 BPM, AP 4203 PSI, AR 46.5 BPM, ISIP 2674 PSI, FG .74, NPI 614 PSI. PMP 1346 BBLS SW & 49,898 LBS OF 30/50 SND 65,000 LBS OF 20/40 RESIN SND. TOTAL PROP 54,898 LBS,		

2 12/10/2009 10:59:27AM

Operation Summary Report

Well: NBU 922	-18C4CS (BLUE)		Spud C	onductor	: 5/29/20	009	Spud Date: 6	7/2009		
Project: UTAH-	-UINTAH		Site: NE	BU 922-18	BE PAD			Rig Name No:		
Event: COMPL	ETION		Start Da	te: 11/9/2	2009			End Date: 11/23/2009		
Active Datum: Level)	RKB @4,920.00ft (above Mean	Sea	UWI: 0	/9/S/22/E	E/18/0/SV	VNW/6/PM/N/1	1,903.00/W/0/404.00/0/0		
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation		
11/11/2009	7:00 - 17:00	10.00	COMP	36	В	Р		STG 6)PU 4 1/2 8K HAL CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 8358' P/U PERF F/8326'-28', 4 SPF, 8 HOLES. 8288'-92', 3 SPF, 12 HOLES. 8234'-40', 3 SPF, 18 HOLES. POOH. SWI, SDFN. STG 6)WHP 951 PSI, BRK 3224 PSI @ 6.4 BPM. ISIP 1817 PSI, FG .65. PUMP 100 BBLS @ 00.0 BPM @ 0000 PSI = 00%		
								HOLES OPEN. MP 5431 PSI, MR 51.6 BPM, AP 4138 PSI, AR 46.4 BPM, ISIP 2505 PSI, FG .73, NPI 688 PSI. PMP 845 BBLS SW & 27,293 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 32,293 LBS,		
								STG 7)PU 4 1/2 8K HAL CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 8112' P/U PERF F/8076'-82', 3 SPF, 18 HOLES. 8060'-62', 3 SPF, 6 HOLES. 8060'-62', 3 SPF, 18 HOLES. POOH. WHP 1120 PSI, BRK 2619 PSI @ 6.4 BPM. ISIP 1307 PSI, FG .59. PUMP 100 BBLS @ 50.5 BPM @ 4300 PSI = 67% HOLES OPEN. MP 4824 PSI, MR 51.2 BPM, AP 4119 PSI, AR 47.9 BPM, ISIP 2820 PSI, FG .78, NPI 1513 PSI. PMP 1643 BBLS SW & 63,875 LBS OF 30/50 SND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 68,875 LBS,		
11/16/2009	6:45 - 7:00	0.25	COMP	48		Р		PU 4 1/2 8K HAL CBP. RIH SET KILL PLUG @ 7958'. POOH.N SWI. JSA- RDSU/ RUSU. PU TBG.		
	7:00 - 15:30	8.50	COMP	31	1	P		RDSU FROM 18F1CS. MOVE OVER AND RUSU ON 18C4CS. ND FRAC VALVES. NU BOP. RU FLOOR AND TBG EQUIP. SPOT IN TBG. MU 3-7/8" HURRICANE MILL, POBS, 1.87" XN NIPPLE AND RIH AS MEAS AND PU 251 JTS 2-3/8" L-80 TBG. TAG SAND AT 7933'. RU DRLG EQUIP W/ #251. FLUSH LINES. DRAIN EQUIP. SDFN W/ EOT AT 7905'.		
11/17/2009	6:45 - 7:00	0.25	COMP	48		Р		JSA- D/O PLUGS. PUMP AND COLD WEATHER.		

12/10/2009 10:59:27AM

Operation Summary Report

Well: NBU 922	-18C4CS (BLUE)	*	Spud C	onductor	5/29/20	009	Spud Date: 6/	7/2009		
Project: UTAH	<u>`</u>		Site: NB	BU 922-1	BE PAD		· · · · · · · · · · · · · · · · · · ·	Rig Name No:		
Event: COMPL	ETION		Start Da	ite: 11/9/	2009			End Date: 11/23/2009		
Active Datum: Level)	RKB @4,920.00ft (a	above Mean	Sea	UWI: 0	/9/S/22/E	E/18/0/S	WNW/6/PM/N/1,903.00/W/0/404.00/0/0			
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation		
	7:00 - 18:00	11.00	COMP	44	С	P		OPEN WELL AND WARM EQUIP. (1-FROZEN LINE) FILL HOLE AND P-TEST TO 3000 PSI. GOOD. EST CIRC AND D/O PLUGS. #1- C/O 14' SAND TO CBP AT 7958'. D/O PLUG IN 8 MIN. 100# INC. RIH. #2- C/O 5' SAND TO CBP AT 8112'. D/O PLUG IN 6 MIN. 150# INC. RIH. #3- C/O 37' SAND TO CBP AT 8358'. D/O PLUG IN 30 MIN. 50# INC. RIH. #4- C/O 38' SAND TO CBP AT 8688'. D/O PLUG IN 38 MIN. 50# INC. RIH. #5- C/O 33' SAND TO CBP AT 9094'. D/O PLUG IN 15 MIN. 50# INC. RIH. #6- C/O 30' SAND TO CBP AT 9436'. D/O PLUG IN 45 MIN. 250# INC. RIH. #6- C/O 30' SAND TO CBP AT 9436'. D/O PLUG IN 45 MIN. 250# INC. PLUG PUSHED UP 20K. LET PLUG EQUALIZE TO CET MOVING POWANT PLU		
								GET MOVING DOWN. RIH. SUSPECTING PROBLEMS WITH PWR SWIVEL. SWAP OUT PWR SWIVELS. NOT PWR SWIVEL. HOLE IS VERY DEVIATED. HAVE TORQUE TURNED UP TO 2100 FT LBS AND CAN ONLY ROTATE WHEN TBG IS MOVING UP OR DOWN. RIH.		
								#7- C/O 32' SAND TO CBP AT 9654'. D/O PLUG IN 60 MIN. 300# INC. PLUG PUSHED UP 30K. LET PLUG EQUALIZE. ABLE TO GET JT DOWN. DRAIN EQUIP AND LINES. HOOK UP WELL TO FLOW ON 48/64 CHOKE. SDFN		
11/19/2009	7:00 -			33	Α			7 AM FLBK REPORT: CP 2500#, TP 1475#, 20/64" CK, 42 BWPH, LIGHT SAND, LIGHT GAS TTL BBLS RECOVERED: 5075 BBLS LEFT TO RECOVER: 4804		
11/20/2009	7:00 -			33	Α			7 AM FLBK REPORT: CP 2525#, TP 1500#, 20/64" CK, 36 BWPH, LIGHT SAND, MEDIUM GAS TTL BBLS RECOVERED: 6005		
	10:00 -		PROD	50				BBLS LEFT TO RECOVER: 3874 WELL TURNED TO SALE @ 1000 HR ON 11/20/09 - FTP 1550#, CP 2575#, 1.3 MCFD, 36 BWPD, 20/64 CK		
11/21/2009	7:00 -			33	Α			7 AM FLBK REPORT: CP 2450#, TP 1525#, 20/64" CK, 30 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 6783 BBLS LEFT TO RECOVER: 3096		
11/22/2009	7:00 -			33	Α			7 AM FLBK REPORT: CP 2600#, TP 1725#, 20/64" CK, 20 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 7351		
11/23/2009	7:00 -			33	Α			BBLS LEFT TO RECOVER: 2528 7 AM FLBK REPORT: CP 2550#, TP 1675#, 20/64" CK, 16 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 7787 BBLS LEFT TO RECOVER: 2092		
	7:00 -			33	Α			7 AM FLBK REPORT: CP 2700#, TP 1750#, 20/64" CK, 16 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 7851		
11/27/2009	7:00 -		PROD	50				BBLS LEFT TO RECOVER: 2028 WELL IP'D 11/27/09 - 1792 MCFD, 0 BOPD, 75 BWPD, CP 2068#, FTP 1290#, CK 20/64", LP 128#, 24 HRS		

12/10/2009 10:59:27AM 4

Sundry Number: 1-6232 Approval of This: 43047398450000

Action is Necessary

	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MININ	NG	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0359
SUNDF	RY NOTICES AND REPORTS O	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
	sals to drill new wells, significantly deepen ex ugged wells, or to drill horizontal laterals. Use		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 922-18C4CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONS	HORE, L.P.		9. API NUMBER: 43047398450000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th S	PHONE street, Suite 600, Denver, CO, 80217 3779	NUMBER: 720 929-6515 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1903 FNL 0404 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: SWNW Section: 18	IP, RANGE, MERIDIAN: 8 Township: 09.0S Range: 22.0E Meridian: S		STATE: UTAH
11. CHE	CK APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPORT,	OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
_	☐ ACIDIZE ☐	ALTER CASING	✓ CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	☐ CHANGE TO PREVIOUS PLANS	CHANGE TUBING	☐ CHANGE WELL NAME
6/28/2011	☐ CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
SUBSEQUENT REPORT	☐ DEEPEN ☐	FRACTURE TREAT	☐ NEW CONSTRUCTION
Date of Work Completion:	☐ OPERATOR CHANGE	PLUG AND ABANDON	☐ PLUG BACK
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION ☐	SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR ☐	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	☐ WATER SHUTOFF ☐	SI TA STATUS EXTENSION	APD EXTENSION
	☐ WILDCAT WELL DETERMINATION ✓	OTHER	OTHER: Wellhead Repair
	DMPLETED OPERATIONS. Clearly show all pertine ts approval to conduct wellhead,		·
	ell location. Please find the attac		Accepted by the
propos	sed repair work on the subject w	ell location.	Utah Division of
			Oil, Gas and Mining
		Da	ate: 07/11/2011
		В	y:
NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II	
SIGNATURE N/A		DATE 6/28/2011	

WORKORDER #:

Name: <u>NBU 922-18C4CS - [922-18E PAD]</u> 6/16/2011

Surface Location: SWNW Sec. 18, T9S, R22E

Uintah County, UT

API: 4304739845 **LEASE#:** UTU-461

ELEVATIONS: 4894' GL 4920' KB

TOTAL DEPTH: 10,180' **PBTD:** 10,130'

SURFACE CASING: 9 5/8", 40# J-55 @ 2829'

PRODUCTION CASING: 4 1/2", 11.6#, I-80 @ 10,170'

TOC @ ~1926' per CBL

PERFORATIONS: Mesaverde 8008' – 9874'

Tubular/Borehole	Drift	Collapse psi	Burst psi	Capacities			
	inches			Gal./ft.	Cuft/ft.		Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624		0.02171	0.00387
4.5" 11.6# I-80	3.875	6350	7780	0.6528		0.0872	0.0155
9.625" 40# J-55	8.679	2570	3950	3.1847		0.4257	0.0758
Annular Capacities							
2.375" tbg. X 4 ½" 11.6# c	sg			0.4227	0.0565		0.01

GEOLOGICAL TOPS:

1834' Green River

2473' Mahogany

5339' Wasatch

8039' Mesaverde

NBU 922-18C4CS - WELLHEAD REPAIR PROCEDURE

PREP-WORK PRIOR TO MIRU:

- 1. Dig out down to the 2" surface casing valve or to the valve on the riser off the surface casing.
- 2. Install a tee with 2 valves, with a pressure gauge and sensor on one valve.
- 3. Open casing valve and record pressures.
- 4. Install nipple and steel hose on the other valve, the relief valve,. Do not use hammer unions. No impact equipment or tools to be used for any of this installation. Extend hose and hard piping to a downwind location at least 100' from the wellhead. Consider installing a manifold so that vent area could be in two locations approx. 90 degrees apart from the wellhead.
- 5. Open the relief valve and blow well down to the atmosphere.
- 6. Make a determination of amount of gas flow, either by installation of a choke nipple, bucket test or other.
- 7. Shut well in. Observe for rate of build-up by utilizing sensor data. Do not build-up for more than 24 hours. Vent gas through the vent line and leave open to the atmosphere.

WORKOVER PROCEDURE:

- 1. MIRU workover rig.
- 2. Kill well with 10# brine / KCL (dictated by well pressure).
- 3. Remove tree, install double BOP with blind and 2 3/8" pipe rams, with accumulator closing unit and manual back-ups. Function test BOP system.
- 4. POOH w/ tubing laying down extra tubing.
- 5. Rig up wireline service. RIH and set CBP @ ~7958'. Dump bail 4 sx cement on top of plug. POOH and RD wireline service. TIH w/ tubing and seating nipple. Land tubing ±60' above cement. RDMO.
- 6. Monitor well pressures. If surface casing is dead. MIRU. ND WH and NU BOP. POOH w/ tubing.
- 7. Depending on conditions at wellsite, continue with either CUT/PATCH Procedure or BACK-OFF Procedure.

CUT/PATCH PROCEDURE:

- 1. PU internal casing cutters and RIH. Cut casing at +/- 30' from surface.
- 2. POOH, LD cutters and casing.
- 3. PU 7 3/8" overshot with 4 ½" right hand standard wicker grapple, 1 4 ¾" drill collar with 3 ½" IF threads, pup joint, manual bumper sub, and crossovers. If casing cut is deeper than ±30' utilize >7000 ft-lb torque pipe as needed. Pull a minimum of 10,000# to keep grapple engaged if cement top is high (<~900'). If cement top is low (>~900'), more weight will be required to put casing in neutral. Torque casing string to ±7000 ft-lbs, count number of turns to make-up, and document in the daily report. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place ±7000 ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out, release overshot, POOH, and lay down.
- 4. TIH w/ skirted mill and dress off the fish top for approximately ½ hour. TOOH.
- 5. PU & RIH w/ $4\frac{1}{2}$ " 10k external casing patch on $4\frac{1}{2}$ " P-110 casing. Ensure that sliding sleeve assembly shifts ±3' and casing tags no-go portion of patch. NOTE: Shear pins will shear at 3500 to 4500 lbs.
- 6. Latch fish, PU to 100,000# tension. RU B&C. Cycle pressure test to 3500 psi.
- 7. Install slips. Land casing w/ 80,000# tension.
- 8. Cut-off and dress 4 ½" casing stub.
- 9. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~7908'. Clean out to PBTD (10,130').
- 10. POOH, land tbg and pump off POBS.
- 11. NUWH, RDMO. Turn well over to production ops.

BACK-OFF PROCEDURE:

- 1. PU internal casing cutters and RIH. Cut casing at +/- 6' from surface.
- 2. POOH, LD cutters and casing.
- 3. PU 4 ½" overshot. RIH, latch fish. Pick string weight to neutral.
- 4. MIRU casing crew and wireline services. RIH and shoot string shot at casing collar @ ± 46'.
- 5. Back-off casing, POOH.

- 6. PU new casing joint with buttress threads and entry guide and RIH. Tag casing top. Thread into casing and torque up to ±7000 ft-lbs, count number of additional turns to make-up, and document in the daily report. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place ±7000 ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out go to step 7.
- 7. PU 100,000# tension string weight. RU B&C. Cycle pressure test to 3500 psi.
- 8. Install slips. Land casing w/ 80,000# tension.
- 9. Cut-off and dress 4 ½" casing stub.
- 10. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~7908'. Clean out to PBTD (10,130').
- 11. POOH, land tbg and pump off POBS.
- 12. NUWH, RDMO. Turn well over to production ops.

STRENGTH DATA FOR LOGAN 5.88" OD "L" TYPE CSG PATCH 4-1/2 CASING, 10K PSI MAX WP 125K YIELD MAT'L LOGAN ASSEMBLY NO. 510L-005 -000



COLLAPSE PRESSURE: 11,222 PSI @ 0 TENSILE 8,634 PSI @ 220K TENSILE

Tensile Strength @ Yield: Tensile Strength w/ 0 Int. Press.= 472,791lbs. Tensile Strength w/ 10K Int. Press.= 313,748lbs.

DATA BY SLS 11/16/2009

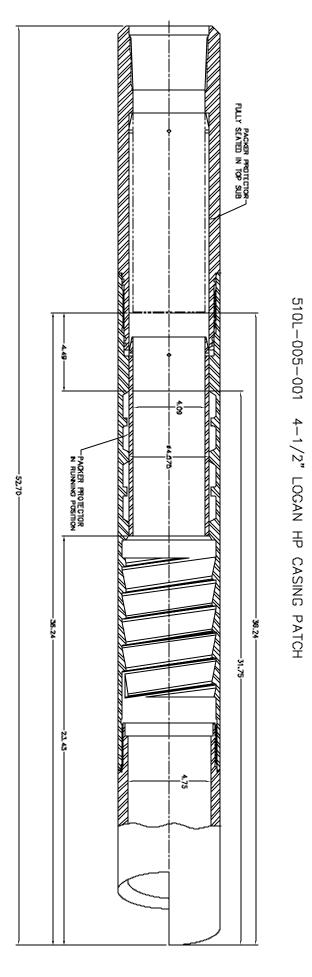


Logan High Pressure Casing Patches Assembly Procedure

All parts should be thoroughly greased before being assembled.

- 1. Install all four Logan Type "L" Packers in the spaces provided in the Casing Patch Bowl. Refer to diagram provided for proper installation.
- 2. Install Packer Protector from the Basket Grapple end of the Bowl. The beveled end of the Packer Protector goes in first. Carefully push the Packer Protector through the four Type "L" Packers.
- 3. Align Shear Pin Holes in Packer Protector so that the holes have just passed into the counter bore at the Top Sub end, refer to diagram. The Packer Protector is provided with four Shear Pin Holes. Use only two holes, 180 degrees apart and install the pins.
- 4. Screw the Basket Grapple in from the lower end of the Bowl, using left-hand rotation. The Tang Slot in the Basket Grapple must land in line with the slot in the Bowl.
- 5. Insert the Basket Grapple Control into the end of the Bowl. Align Tang on the Basket Grapple Control with the Tang Slot of the Bowl and Basket Grapple. This secures the Bowl and the Basket Grapple together.
- 6. Install the Cutlipped Guide into the lower end of the Bowl.
- 7. Install O-Rings on the two five-foot long Extensions. Screw the first Extension into the top end of the Bowl. Screw the second Extension into the top end of the first Extension.
- 8. Install O-Ring on Top Sub. Screw Top Sub into top end of second Extension.

Follow recommended Make-Up Torque as provided in chart.



RECEIVED Jun. 28, 2011

	STATE OF UTAH			FORM 9
ı	DEPARTMENT OF NATURAL RESOUR DIVISION OF OIL, GAS, AND M			5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-0359
SUNDR	RY NOTICES AND REPORTS	S ON V	VELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
	oposals to drill new wells, significantl reenter plugged wells, or to drill horiz n for such proposals.			7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well				8. WELL NAME and NUMBER: NBU 922-18C4CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.			9. API NUMBER: 43047398450000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18tl	h Street, Suite 600, Denver, CO, 802	IE NUMBER: 720 929-6	9. FIELD and POOL or WILDCAT: 5NATERAL BUTTES	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1903 FNL 0404 FWL			COUNTY: UINTAH	
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SWNW Section:	HIP, RANGE, MERIDIAN: 18 Township: 09.0S Range: 22.0E Me	3	STATE: UTAH	
11. CHEC	K APPROPRIATE BOXES TO INDICA	CATE NA	TURE OF NOTICE, REPOR	T, OR OTHER DATA
TYPE OF SUBMISSION			TYPE OF ACTION	
	ACIDIZE	☐ AL	TER CASING	✓ CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	Сн	ANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS	□ со	MMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	☐ FR	ACTURE TREAT	NEW CONSTRUCTION
10/26/2011	OPERATOR CHANGE	PL	UG AND ABANDON	PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RE	CLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIE	DETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	☐ ve	NT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	□ sı·	TA STATUS EXTENSION	APD EXTENSION
· ·	WILDCAT WELL DETERMINATION	Пот	HER	OTHER:
40 DECODINE DRODOSED OD			land late the trade that the lates of	<u> </u>
The operator has co	COMPLETED OPERATIONS. Clearly show oncluded the wellhead/casi e see the attached chronology the operations.	ing rep	pairs on the subject	Accepted by the
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUN 720 929-6304		TITLE Regulartory Analyst	
SIGNATURE			DATE	
N/A		- 1	7/17/2012	

RECEIVED: Jul. 17, 2012

					_		KIES R	EGION ary Report	
Well: NBU 922-1	18C4CS (BLUE)		Spud Cor	nductor: 5	5/29/2009	<u> </u>	Spud Date: 6/1	7/2009
Project: UTAH-L	Project: UTAH-UINTAH Site:				J 922-18E	PAD			Rig Name No: SWABBCO 6/6
Event: WELL W	ORK EXF	PENSE		Start Date	e: 10/24/2	2011			End Date: 10/26/2011
Active Datum: R Level)	KB @4,9	20.00usft (a	bove Mean S	ea	UWI: 0/9	9/S/22/E/	18/0/SWI	NW/6/PM/N/1,903	3.00/W/0/404.00/0/0
Date		Time art-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
10/18/2011		- 13:00	2.00	PROD	35				Tb 307 Cs 672 FL GC Got Viper Plunger out of Wellhead. Ran w/Up Shear Fish Tool to SN at 9509, latched, pulled Steel Spring w/single X-cups, cups good. Plunger and Spring in Sep Bldg, left for Rig Job. Returned well to production. Rigged down.
10/24/2011		- 7:15	0.25	WO/REP	48		Р		JSA= WELL CONTROL
10/25/2011	7:00	- 17:00 - 7:15	9.75	WO/REP	30		P		FWP= 300# TUB, 900# CAS, RU RIG CONT TUB W/ 30 BBLS TMAC (STEM ON MASTER VALVE WAS BROKEN) ND W/H NU BOPS RU FLOOR & TUBING EQUIP CONT CAS W/ 50 BBLS TMAC POOH W/298 JNTS LD BHA RU W/L RIH W/ GUAGE RNG TO 8000' PU 10K CIBP RIH SET @ 7950' DUMP BAIL 2 SKS CEM ON PLG FILL HOLE W/ TMAC PRESS TEST TO 500# PREP TO REPAIR W/H IN AM SIW SDFN JSA= P.U FISHING EQUIPMENT
		- 17:00	9.75	WO/REP	30		Р		SIWP= 0 PSI, ND BOPS PU INT CUTTER CUT CSG BELOW HNGR ND WELLHEAD PU OVERSHOT RIH OVER CSG RU W/L & CSG TONGS APPLY LH TORQUE SET OFF STRING SHOT BACK OFF PUP PU NEW PUP RIH THREAD ONTO CSG STRING @ 6500# TORQUE RU & TEST TO 3500# SET SLIPS @ 90000# NU WELLHEAD & BOPS RU FLOOR & TUBING EQUIP PU 3-7/8" BIT RIH TAG TOC @ 7930' RU PWR SWVL PREP TO C/O IN AM SIW SDFN
10/26/2011		- 7:15	0.25	WO/REP	48		Р		JSA= N2 FOAMING
	7:15	- 17:00	9.75	WO/REP	30		Р		SIWP= 0PSI EST CIRC W/ N2 FOAMER DRILL THRU CEM & CIBP @ 7950' CIRC CLEAN CONTINUE TO RIH TAG @ 10110' EST CIR COULDNT MAKE HOLE CIRC CLEAN RD SWVL POOH LD 19 JNTS LAND TUB ON HNGR W/ 298 JNTS EOT @ 9517.20' DROP BALL PMP OFF BIT RIH W/ BROACH TO XN NPL RD FLOOR & TUBING EQUIP ND BOPS NU WELLHEAD SIW RD RIG MOVE TO 18C4BS RU RIG SDFN

1/24/2012 12:28:14PM 1